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UNITED STATES DEPARTMENT OF AGRICULTURE
Weather Bureau —— Bureau of Agricultural Economics

REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA
For the Week Ending Tuesday, May 4, 1937.

Issued jointly by the Division of Crop and Livestock Estimates and the Weather Bureau.
Offices: Fourth Floor, Federal Office Building, Helena, Montana.

Showers replenished topsoil moisture in western and some southern districts early in the week. The remainder of the State, however, went practically rainless, and continues in need of good rains to bring on feed and crop growth and to keep topsoils from seriously drying out. Good rains east of the Divide are also needed to prevent soil blowing and furnish water for livestock and irrigation. In Teton County, irrigation projects are reported in bad shape, with several reservoirs completely dry. Subsoils remain dry or with little moisture reserve.

Farm work advanced generally, although high winds and dry soils hindered somewhat in the east and wet fields retarded seeding a little in the west. Seeding of early grains and sugar beets is nearly completed, and a start has been made with peas. Some farmers have discontinued seeding of grain because of want of moisture in seedbeds and the presence of great numbers of cutworms. Summerfallowing continued to make good progress, and there was also some plowing in preparation for corn.

Growing conditions this season have been mostly below normal because of cold weather and lack of moisture. Abundant sunshine and more favorable temperatures during the past week, however, were considerable help to backward vegetation. Winter wheat has stooled well, and its general condition ranges from fair to good. Considerable is spotted, and abandonment will likely be greater than earlier anticipated. In the Square Butte district in Chouteau County, approximately 85 per cent of the winter wheat acreage has been abandoned and reseeded to spring wheat. Early sowings of spring wheat are through the ground, with stands varying from poor to good. Irrigation or rain will probably be necessary before spring crops east of the Divide show satisfactory stands. Irrigation of sugar beets followed planting in the drier districts of the north, and will likely be resorted to in other districts for germination purposes unless rains occur soon.

Ranges and pastures are carrying most livestock, but the grass generally is short, and in the east thin and barely sufficient for livestock needs. Some roughage and dry feed continues to be fed where grass is late. Rains are badly needed for grass over most of the eastern two-thirds of the State.

Livestock are picking up a little in weight where new feed is more plentiful. General condition of livestock ranges from fair in the east to mostly good in the west. Some marketing has occurred in north-central districts, where prospects for summer feed have appeared poor. Weather conditions this spring have been mostly favorable for livestock. What losses have occurred have resulted mostly from the lack, or the poor quality, of feed. Weather conditions during the past week were excellent for lambing operations, and the early start of shearing in the northwest.

Reports on insect pests indicate little change from last week's situation. Cricket poisoning work increased to some extent with generally favorable results.

WEEKLY TEMPERATURE AND PRECIPITATION DATA

Station	Temperature		Total Precipitation		Sunshine
	Highest	Lowest	This week.	Since April 1.	Percent of Possible
Billings	79	33	0.02	0.74	*
Bozeman	72	32	0.55	2.42	*
Cut Bank	80	32	0.02	0.42	*
Fort Peck	77	31	0.01	0.35	*
Glendive	78	34	0.07	0.42	*
Great Falls	80	36	0.02	0.22	*
Havre	80	40	0.01	0.31	84
HELENA	78	33	0.28	0.57	77
Kalispell	76	32	0.30	1.22	72
Lewistown	78	32	T	0.55	*
Malta	79	27	0.03	0.76	*
Miles City	76	36	0.23	0.81	60
Missoula	82	30	0.19	0.93	62
Poplar	78	22	0.10	0.48	*

*No data.

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Series 1937 - No. 5.
May 5, 1937.
Helena, Montana.

W. E. Maughan, Weather Bureau.
Jay G. Diamond, Division of Crop and
Livestock Estimates.

The following county summaries of crop conditions for the week ending May 1, 1937 are furnished through the courtesy of Director J. C. Taylor, Montana State Extension Service:

BEAVERHEAD: Warmer, with rain and wet snow generally throughout the county. Some crops in; outlook for grass is favorable, with the additional moisture and warmer temperature. Most of the fed livestock has been delivered. Livestock in good condition.

BIG HORN: Light precipitation, but high winds sapped moisture and cool nights kept growing conditions below average. Winter wheat fair; spring wheat uncertain. Crops nearly all seeded, except beans, potatoes, etc. All sugar beets will probably be irrigated up. Range greening up, but grass is slow. Livestock on the range, but grass rather short. Crickets menacing, and control campaign under way.

BLAINE: Past week cloudy, cool, and extremely windy. No precipitation. Growing conditions poor. Field work in the irrigated section is progressing rapidly. Beet seeding is about 60% completed. Soil conditions making it necessary to irrigate the beets up. Seeding on dryland is progressing slowly in many cases due to high winds. Many operators are delaying seeding on account of lack of moisture, also the possibility of cut worms. Livestock have not improved since last week. Range grass slow, but in many cases the stock has now been turned on the range, principally due to shortage of hay. A good general rain throughout the county needed very badly, otherwise conditions are going to be serious within a short time.

CARBON: Cool weather, with very light showers and dry winds most of the week. Alfalfa winter killed in many sections. Winter wheat progressing in good shape. Spring seeding practically finished. Grasshoppers and crickets hatching. The cricket campaign is getting under way, with a large acreage infested. Range conditions none too good; some grass apparently killed out. Livestock in fair shape.

CASCADE: High, cold winds and no precipitation. Growing conditions unfavorable for germination of seed and crops already started. Seeding of spring crops continues. Sugar beets will be irrigated up unless rain comes soon. Grass near the foothills is sufficient to care for some livestock, but need additional moisture. Crickets hatching in large numbers and new areas now reporting outbreaks. Preparations are under way to start dusting the first of next week. Livestock are in fair to good shape, except where feed is scarce in the north and western parts of the county. The labor situation is normal.

CHOUTEAU: Weather dry, with unusually high winds doing considerable damage to soils and crops. Winter wheat making slow growth. One community, Sq. Butte Bench, was reported 80% winter wheat failure. Spring seeding under way, with some farmers hesitating to plant due to lack of moisture. Summer fallow operations about one-third to one-half completed. Livestock has been turned on to the ranges, but grass is very short. Mormon cricket infestation very bad. Organization work completed and field work starting along a 40 mile front in the southern part of the county May 1.

CUSTER - **POWDER RIVER**: Temperatures mostly too cool for good growth. Two days of high winds followed by a few light local showers. Seeding of spring crops halted for want of more moisture. Winds have caused soil blowing in cultivated areas. No spring grain crops up. More alfalfa being reported dead; sugar beets in and growers preparing to irrigate if rains are late. Grass making slow growth. More moisture and warmer weather needed in many areas. All stock turned out. Sheep are doing better than cattle. Lambing under way, with fair crop in prospect. Mormon crickets present in large numbers, with some damage reported. A few reports of grasshoppers to date.

DANIELS: Light precipitation, following heaviest wind and dust storm of the season. Very cold and dry. Present soil moisture sufficient to germinate seeds planted deep, but more is needed to keep plants alive. Seeding in most areas well along, yet many farmers are now delaying further seeding operations pending rainfall. Too cold and dry for grass growth, necessitating further feeding of livestock. Some calf and cow losses. Range lambing in full swing next week. Green grass needed. Ample labor to fill demands. No indication of hoppers or crickets.

DAWSON: Heavy winds, with light scattered showers. Temperatures generally low. Field work continued heavy throughout the week with large part of wheat seeding completed and a considerable portion of other small grains. Planting of forage crops is in progress and considerable acreage is being plowed. Grass still insufficient and a number of herds being fed dried roughage. Lambing has started with early reports indicating not too favorable results.

FALLON - **CARTER**: High winds. Cool temperatures. Growing conditions not too favorable. Soil blowing in some areas. Not much change in crop conditions since last week; growth slow. Moisture conditions not too favorable. Lambing operations are under way in southern Carter County. Grass poor to fair for lambing operations; will have a very noticeable effect on lamb crop. Both lamb and calf crop will be short.

FERGUS: Dry and cold. Crops not making normal growth. Spring wheat seeding over half completed with sufficient moisture to start larger percentage of it. Winter wheat in stubble continues fair. Over 50% of the winter wheat on fallow has been reseeded; some fields spotted and not reseeded; few fields good. Grass slow. Alfalfa starting; badly damaged by winter kill. Most livestock finding feed even though grass is short. Good weather has allowed percentage of loss to be small. Stock beginning to gain in flesh. Mormon crickets hatched in some areas. Grasshoppers reported in scattered areas. (Continued on Page 2.)

FLATHEAD: General rain with enough to soak the ground several inches. Weather very cool, retarding crop growth. The seeding of much grain being delayed until warmer weather. Livestock condition good, with grass coming on in good shape in most parts of the county. Sheep shearing has started, with weights slightly better than the average.

GARFIELD - PETROLEUM: High winds; moderate temperatures; no precipitation. Growing conditions poor to fair. Severe soil drifting causing damage to early seeded crops in limited areas. Crop conditions are subnormal and the acreage seeded will be somewhat short. Some livestock now on the open range, and because of small numbers will be able to obtain sufficient forage from rather thin range grass.

GLACIER: Temperatures mild. Heavy rains in western part of county Wednesday night. Some snow banks in northern part of county. Field work going strong. Grass coming along rapidly. Stockmen listing surplus hay for sale. Outside sheepmen preparing to bring stock in for summer range. Lamb crops good due to good feed. Calving well along. Stockmen who ran short of feed reporting some trouble, but stockmen that wintered well have a good calf crop. Labor balanced. No further reports of cutworms, hoppers, or crickets.

HILL: - Trace of precipitation. 90% of the wheat seeded in the east half of the county; 75% seeded in the west half. High winds early part of the week caused some soil blowing. No report of any crops being blown out as yet. Grass making very slow start on ranges. Range stock in just fair condition.

JUDITH BASIN: Growing conditions poor; temperatures cool; high winds. Precipitation slight. Local showers and snow in western part of county. Soil moisture below normal. Drouth serious in central and eastern parts of county. Soil blowing badly. Spring wheat seeding well under way; many delaying on account of worms. Winter wheat shows indications of less than 50% survival. Practically all livestock on range. Grass growing slowly. Calving and lambing about 50% completed. Indications point to a good lamb crop. Crickets hatching in foothill areas in large numbers.

LAKE: - Early part of week clear and warm; latter part windy and cooler with occasional showers. Growing conditions improved over a week ago. Alfalfa and clover started. Spring grains being seeded as fast as weather permits. Sugar beet seeding about 50% completed. A few winter wheat stands look good, but most fields show about 60% stand. Cattle improving in condition with improvement in grass. Lambing mostly completed. Cricket organization being completed with plans to start poisoning next week.

LEWIS & CLARK & BROADWATER: Rains in both counties helped growing conditions considerably. Warmer weather toward the latter part of the week combined with moisture improved both the crop and grass situation in both counties. Spring field work activities increased due to more confidence in seasonal moisture and warmer weather. Some reseeding of winter wheat. Lambing in full swing. Calf crop normal. Wintered stock moving back to home ranges. Stock in fair condition considering lateness of spring weather and grass.

MADISON & JEFFERSON: Beneficial rains and snows greatly improved growing and moisture conditions. Many fields of winter wheat are badly spotted, with only a few escaping serious winter injury. Early planted grains are up in most localities, but quite a large amount of grain remains to be planted in Madison County. Farmers who have water available are pushing irrigation, while many others expect to start during the coming week or as soon as water is turned in canals. Many stockmen experienced serious difficulties with stock during past week. Many are out of hay and found it difficult to locate adequate supplies. Mormon crickets hatched in vicinity of Whitehall during forepart of week, and offer very serious problem, as many thousands of acres are heavily infested.

MEAGHER: Few showers, otherwise warm drying days with little wind. Grass starting to grow. Plowing and other farming operations well started. Winter grains doing nicely. Range coming along fine. Lambing well under way. Generally, all stock in fair condition. Supply exceeds demand a little because of strangers coming in anticipating working in lambing sheds.

MISSOULA: Hot and dry first and last; cool and stormy middle of week. Some rain and snow; generally excellent growing conditions. Spring crops probably 70% seeded. Alfalfa starting to grow. Winter wheat that was not killed out is making good growth. Considerable land in Frenchtown area being prepared for irrigation under their new project. Pastures improved materially during week. Rodent control campaign in full swing.

MUSSELSHELL - GOLDEN VALLEY: Dry; high winds; soil blowing. At present it looks like a repetition of the past four or five years. Cut worms working on winter wheat in four communities. The balance of the winter wheat looks very good so far, providing the cut worms do not get into those fields. Crop conditions this year are not as good as last. Grasshoppers showing up in small areas, also Mormon crickets. Cattle thin; some very heavy losses. There is a little green grass, and it seems to weaken cattle very materially. Lambing just starting. Five bands of sheep brought back to Musselshell and Golden Valley counties that were fed elsewhere during the winter. Too early to tell anything about the lamb crop.

PHILLIPS: High winds. Trace of precipitation. Weather remains cool. Seeding about half completed on dry land. Planting sugar beets in the valley. Livestock condition fair. Plenty of stock water, but very little grass.

(Continued on Page 3.)

PONDERA: Precipitation in northeast section of the county, one-half inch. Light shower over the central portion and the northwest quarter of the county, averaging approximately .35 inch in the western portion. About 55 per cent of the wheat is seeded, and all seeding will be completed next week. Summer fallow operations have begun. Oat and barley supplies are dwindling. Big demand for mixed perennial grasses and alfalfa and sweet clover. Moisture reserves will average 12 inches in east end of county down to approximately 6 inches through the west half of the county, and will materially benefit crop production in the east half, which was dried out in 1936.

Range grass is starting to come and will furnish some feed for livestock as of May 1st. Stockmen are attempting to hold off more or less another week in order to give the grass a start. No livestock shipments. Lambing on larger ranches beginning; farm flocks practically completed. Labor balanced.

PRAIRIE: Weather and crop conditions unfavorable, with severe wind and dust storms Tuesday and Wednesday. A light drizzle Thursday, which left little moisture but raised hopes. Seeding of wheat is almost completed, with nearly normal acreages being seeded on the better benches and wheat soils. Considerable feed crops will be planted. Range grasses making little or no growth. Grass south of the Yellowstone River better than grass north of the river, where the start is barely perceptible. Stock thin; necessary to feed concentrates as yet. Lambing due to start this week. Ewes are in better condition than the cattle, but need green grass. Supply of labor ample.

RICHLAND: Temperatures generally moderate during entire week. Hard drying winds during forepart of week. General rains over county during Thursday and Friday, which improved the crop outlook. However, depth of soil moisture not materially affected. About two-thirds of the small grain crops have been seeded in the dryland areas. It is expected that a small shift in acreage from wheat to other small grains will take place. Some grasshoppers reported to be hatching in northern part of county. Sugar beet acreage situation changed some; nearer normal acreage expected. Livestock situation unchanged.

ROOSEVELT: Very light precipitation April 29, but not enough to alter the soil moisture situation. Early wheat showing green. Several farmers report all wheat seeding completed, but the majority are battling the 1936 thistles and seeding is slow. Seed situation not acute. Pastures and ranges need spring moisture to start. All livestock thin and vainly hunting for good pasture.

ROSEBUD: Trace of precipitation last week. High winds first half of week. Range grass practically at standstill due to cold dry weather. Early seeding of spring grain coming up. Seeding of spring grain and sugar beets about three-fourths completed. Seeding being generally curtailed due to unfavorable moisture conditions and expected insect damage. Cattle generally in poor condition; some feeding still necessary. Light calf crop expected. Army worms appearing in some localities.

SANDERS: Average temperature some higher during past week, but still too cold for good growing conditions. Only a trace of precipitation. Moisture conditions very good in west half of county; east half, low moisture supply. All crops backward due to continued cold weather. Winter wheat in good condition and making slow growth. Spring seeding well advanced. Early seeding coming up. Meadows quite green, but slow growing. Livestock on lower ranges, which are improving to fair carrying capacity. Crickets hatching in large numbers over wide areas of range lands. No crickets reported on crop lands.

STILLWATER: Cold and windy. Grass and winter wheat slow in starting. .22 inch precipitation in Columbus Thursday night. Although moisture is sufficient at present time, the wind causes excessive evaporation. Winter wheat prospects only fair, with considerable damage being reported by cutworms and army worms. Less feeding of livestock with new grass coming on.

SUN RIVER PROJECT: Light showers during the week, totaling .15 inch. General east wind most of the week. Irrigated fields in poor moisture condition for seeding. Most farmers irrigating before planting. Livestock still on dry feed. Labor ample to take care of all needs at the present time.

SWEET GRASS: Just a trace of precipitation. Two days of good growing weather; the balance cloudy and cool, growing conditions poor. Soil condition for seed beds is excellent; plenty of moisture and soil mellow. Spring wheat seeding 90% seeded. Some oats and grass seeds sown. Approximately 15% of winter wheat killed due to insufficient moisture on account of cold weather. Early lambing 85% completed. Sheep 75% out on grass, with very little hay. Cattle mainly in poor condition. Crickets 75% hatched. Will start control campaign as soon as weather is warmer.

TETON: A few scattered showers this week; the eastern part of the county had .31 inch precipitation. Temperatures have been considerably higher than for the previous week. For the first half of the week, we had cold raw winds. Early seeded wheat in the eastern part of the county is coming up nicely. Seeding has been in full swing in most communities with the exception of irrigated areas. Considerable number have suspended seeding operations due to lack of moisture in seed bed. Irrigated projects in this part of the county are in bad shape, there being no water in the Bynum reservoir nor any in the other reservoirs. Grass is short; just places where there were snow banks grass is commencing to come up. Livestock conditions are none too good. Ranchers will be forced to feed concentrates or hay for some time yet.

(Continued on Page 4.)

TOOLE: Weather cloudy most of week. Trace of precipitation. Crop two-thirds seeded. Most farmers will finish this week. Some Mormon crickets along Marias River.

VALLEY: Weather mostly clear, with trace of precipitation. High winds during most of the week resulted in severe soil erosion in many areas. Temperatures about normal, but too low for rapid plant growth. Moisture conditions very unfavorable. Serious deficiency of sub-soil moisture, with average of 2 - 4" in top soil. Seeding in irrigated section for most part in full swing. Dryland farmers seeding only part of normal acreage and awaiting rain necessary to keep it alive. Serious shortage of feed; continued buying and feeding of hay and concentrates. Very little new grass available, and sheepmen worried about lambing. Some inquiries as to possible sources of summer pasture and other feed. Little call for labor.

WHEATLAND: Some moisture received in the south and west portion of the county. Somewhat warmer during the past week. Field work started in all portions of the county. Fair grass in southern and eastern portions of county; grass very backward in the western part of county.

WIBAUX: Very cool weather during the week. Trace of precipitation. Poor growing conditions. Very little improvement in grass. Wheat seeding is pretty well finished. Some grain needs top moisture before it will start. Oats and barley seeding commencing, with indications a normal planting will be made. Livestock about the same. Ranges not improving because of cool weather.

YELLOWSTONE: General growing conditions fair. High winds continue to sap moisture from the ground, with no precipitation to speak of in the form of rain or snow. Winter wheat growing and of about average stand. Sufficient warm weather throughout the week to give considerable growth. Approximately 90% of all beets seeded;in the lower end of the valley, may be necessary to irrigate up some of the beets. Spring grains mostly up, with good stands reported. Most gardeners have considerable acreage of truck gardens up and good stands reported. Grass growing over range and seems to have withstood drouth and hoppers of last year in good shape. Livestock looking good. Good lamb percentage reported. Cricket fighting in twenty-seven communities in Yellowstone County. Approximately sixty men working, and double that amount to be in the field next week. Grasshopper survey made indicates that there will be no serious early grasshopper damage in the irrigated area.

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Helena, Montana,
May 5, 1937.

UNITED STATES DEPARTMENT OF AGRICULTURE
Weather Bureau —— Bureau of Agricultural Economics

REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA
For the Week Ending Tuesday, May 11, 1937.

Issued jointly by the Division of Crop and Livestock Estimates and the Weather Bureau.
Offices: Fourth Floor, Federal Office Building, Helena, Montana.

Some light showers occurred in the State during the week ending May 11th, but generally the period was mostly dry and mild. Strong winds continued to deplete soil moisture. Temperatures were variable but above normal. Light to heavy frosts occurred in the western and north-central districts on the 6th, 7th, and 9th, but little damage, if any, resulted because of backward development of the more susceptible vegetation.

Seeding of spring grain is nearly finished except where farmers are waiting for moisture, or where fields in a few low places in the Gallatin and other valleys remain too wet. Planting of corn and potatoes has begun. Feed crops, beans, and late garden stuff will be planted later in the month. Sugar beets are being irrigated up generally. Considerable irrigation of other crops, pastures, and haylands is also under way. A shortage of irrigation water already exists in a few districts, and appears likely soon for other districts because of the deficiency of last winter's mountain snowfall. Summerfallowing progressed satisfactorily, with this operation largely completed now in several of the north-central counties.

Growing conditions were reported good to excellent west of the Divide, and the greater part of the Southwest, but were poor and mostly unfavorable throughout the eastern and north-central sections because of continued and increasing dryness. Winter wheat and rye made further growth, but soils are becoming too dry east of the Divide. Winter wheat is reported better than a year ago in the Gallatin Valley, and is doing well in several other districts. On the other hand, further losses were reported from Cascade County where conditions looked good a month ago, and the estimate of abandonment for the State as a whole was increased to around 35%. Spring wheat is coming up in good shape west of the Divide, but is uneven to the east. It is still doing well in the Northeast, but will need rain soon. Asparagus and rhubarb are ready for market in the Missoula region. Trees are leafing generally, and apples are breaking slowly into bloom.

Pastures and ranges are reported doing well in the West, but continue badly in need of good rains east of the Divide. Flathead County reports an abundance of new feed. Range grass appears dead in several southeastern districts, but considerable revival will likely occur if good May and June rains follow. Alfalfa reports vary; winterkilling of considerable acreage occurred in southern counties. Favorable sunshine and temperature conditions during the past week helped alfalfa, legumes, and clover.

Livestock gained during the week. Improvement through the East was slight, however, for much of the stock in that area are still thin, and required to cover much ground to secure adequate amount of feed. Lack of feed on the home range has necessitated movement to summer range much earlier than usual. In Teton County, the condition of livestock is the poorest in several years. Condition of livestock west of the Divide is good. Weather conditions continued unusually favorable for lambing and calving operations, but lateness of green feed has been unfavorable for ewes. Much eastern rangeland will not be restocked until moisture and feed conditions have improved decidedly.

Soils have warmed sufficiently to bring on more rapid hatching of grasshoppers, but no serious infestations have been reported to date. Mormon crickets are infesting greater area this season. Additional cricket poisoning crews have started work, with Big Horn, Yellowstone, Carbon, Cascade, and Chouteau Counties leading in the control work.

WEEKLY TEMPERATURE AND PRECIPITATION DATA

Station	Temperature		Total Precipitation		Sunshine
	Highest	Lowest	This week.	Since April 1.	Percent of Possible
Billings	80	38	0.08	0.82	*
Bozeman	70	36	0.39	2.81	*
Cut Bank	78	28	0.28	0.70	*
Fort Peck	82	36	T	0.35	*
Glendive	85	32	0.02	0.44	*
Great Falls	79	32	T	0.22	*
Havre	78	36	0.14	0.45	82
HELENA	73	35	0.10	0.67	77
Kalispell	72	30	0.34	1.56	76
Lewistown	74	32	0.05	0.61	*
Malta	82	36	0.02	0.78	*
Miles City	82	38	0.18	0.99	74
Missoula	76	32	0.25	1.18	72
Poplar	83	31	T	0.48	*

*No data.

Series - 1937 - No. 6.
May 12, 1937.
Helena, Montana.

W. E. Maughan, Weather Bureau.
Jay G. Diamond, Division of Crop and Livestock Estimates.

The following county summaries of crop conditions for the week ending May 8, 1937 are furnished through the courtesy of Director J. C. Taylor, Montana State Extension Service:

BEAVERHEAD: Warmer past week; no precipitation; temperature and moisture favorable for grass growth. Seeding under way; grass fair to good, except in a few sections where it is still slow. May lambing started; good calf crops reported.

BIG HORN: Continued dry, with growing conditions below average. Winter wheat continues fair, but spring wheat on the border line. Valley crops not making progress without water. Sugar beets generally irrigated up. Except for feed crops, potatoes, beans, and corn. crops all in. Range slow. Livestock in fair condition. Lambing well along. Labor absorbed by cricket campaign which is waged in all communities of infestation. Thirty-five community captains heading the organization of control with good results. Grasshoppers reported in some communities.

BLAINE: No precipitation. Growing conditions only fair due to the lack of moisture. South of the Milk River, seeding is progressing rapidly on dry land. North of River, very small acreage planted up to date, due to lack of finances for the purchase of seed. Farm work in the Milk River Valley is progressing rapidly. Rain is very badly needed over the entire county in order to hasten germination and grass growth.

Calving is about 90% completed; lambing well under way. Sheepmen also report satisfactory results. Range grass on higher ground is beginning to show effects of the lack of moisture. Some stock has already been moved to summer range, due to the lack of feed to keep them on the home ranch.

CARBON: Rains in most all portions of the county, particularly in the western and northern parts. High winds at least two days during the week. Winter wheat shows a very good growth. Spring crops are showing up well. Alfalfa making a good start in most sections. Mormon crickets are hatched in all portions of the county and are beginning to give considerable trouble.in the northern and eastern sections of the county, where they have crossed from dry land into the irrigated sections. Nine crews of men are now engaged in fighting crickets. Stock in fair shape. Grass conditions are very good considering the season and the time of the year, particularly in the western half of the county. Labor situation fair.

CASCADE: Continued dry and cool weather for the past week did not improve range and seeding conditions. Farmers on dryland are continuing summerfallowing, and the seeding of spring wheat is practically complete. Seeding of sugar beets and other crops on irrigated land is about 50% complete, and many farmers are irrigating either just before or just after seeding, as there is not sufficient moisture to germinate crops. Continued losses have been reported in winter wheat fields which looked good a month ago. About 50% of the farmers whose winter wheat has been killed out are reseeding. The balance are taking their loss. Crickets continued to show an increase in numbers and a program is under way for their control. Dusting started in two communities the past week. Grasshoppers are just starting to hatch, and the infestation appears at this time to be very spotted. Lambing is about 90% complete, with a good percentage reported. There is sufficient grass in the foothill areas to take care of lambing bands and cattle temporarily, but without additional moisture, this grass supply will soon be gone. Labor situation normal.

CHOUTEAU: Week dry and cool with some wind. Poor growing conditions with the exception of the last two days, which were warm. Most farmers have finished their summer fallow, and small grain spring seeding is nearly completed; however, considerable more seeding will be done if rain comes soon. Soil moisture remains inadequate for crop production. Crop production this year will depend practically entirely on considerable timely, seasonal rains. All livestock turned on ranges, with grass very short. A surplus of farm labor exists throughout the county. Mormon cricket infestation much heavier than anticipated and poisoning campaign is organized and well under way.

CUSTER - POWDER RIVER: No rain, but generally much warmer. Grazing conditions improved by rise in temperature. Most grain crops up and looking good, but will need rain soon. Seeding of all crops stopped because of dry weather and prospects of insects. Very few alfalfa fields show any signs of life. Water turned in canal and farmers prepared to irrigate beets and other crops if rains do not come soon. All stock on grass and doing fair to good. Feed still too short to allow much gain. Lamb and calf crops look fair. Ranges looking better at this time, but late grass not showing much signs of life. Ranges likely to go unstocked until a grass and hay crop is assured. Crickets covering over half a million acres. No definite plans for control. Grasshoppers beginning to appear.

DANIELS: No precipitation. High winds drying surface moisture. Favorable weather and soil conditions have permitted early completion of spring wheat seeding. Apparently ample surface moisture to germinate seeded grain. Warmer weather also stimulated weed growth. Rain needed soon to keep crops growing. Corn being planted. Rain and warmer weather necessary to hasten grass growth. By grazing over large areas, livestock find enough feed. Hay being shipped in from Michigan for wor stock and weak cows. Need more green grass for lambing. Ample labor. No insect damage reported.

DAWSON: No precipitation to amount to anything. Growing conditions, other than moisture, not unfavorable. Field work slacking off considerably, with number of farms having wheat seeded and a number of others nearing completion; other small feed grains going in and preparation for corn being made. Seed bed conditions not favorable, generally. Planting of grass and forage crops being made. Lambing in swing with grass conditions none too favorable, but lambs quite strong, according to reports of several outfits.

FALLON - CARTER: No precipitation; dry winds prevailing. Growing conditions unfavorable. Looks like the beginning of another year like 1936. Considerable acreage grain crops up but growth is slow. Too early to predict grasshopper infestation. Due to unfavorable growing conditions, grass is showing very little growth.

(Continued on Page 2.)

FERGUS: No precipitation. Dry during week, but warm enough for satisfactory crop growth. Spring wheat coming up and making satisfactory growth. Winter wheat backward. All crops needing moisture. Grass has started only in coulees. Livestock gaining in condition. Lambs and calves doing well, but crop below normal.

FLATHEAD: The weather warmed up the first part of the week, resulting in very excellent growing conditions. A light shower Wednesday night that was general over the county replenished top soil moisture. A light frost was reported Thursday and Friday nights without any material damage to any crop. The seeding of small grains should be completed by another week. New seedings of legumes and grasses are showing up very well. The condition of livestock is good and pasture and range lands are producing an abundance of good feed at the present time.

GALLATIN: Weather generally clear; rising temperatures until latter part of week. Local showers Friday and Saturday. Field work in all sections of the county, with the exception of just south and west of Bozeman, has advanced considerably during the week. Every effort being put forth to make up for time already lost. Area mentioned is still too wet for much field work. Winter wheat prospects considerably better than a year ago, and reports show that a very small acreage will need to be replanted. Early planted spring grain is showing good germination. Water started in some of the ditches this week and a few alfalfa fields and pastures being irrigated. High water started in most of the creeks in the Gallatin River. Grasshoppers reported hatching in the Amsterdam area on south and west slopes in the lighter soils that have warmed up early. Range lambing under way.

GARFIELD - PETROLEUM: No precipitation. Warmer weather improved growing conditions where moisture was plentiful. Wind and dust storms in limited areas remain a menace to growing conditions. Spring grains emerging. Seeding, excepting corn and other later feed crops, practically completed. Available moisture is short for growth of range grass except where snow lay on the ground during the winter. Moisture supplies in most fields insufficient to start late seedings properly. Conditions fair for this time of year. Sheep growers began lambing with almost ideal weather conditions prevailing. Calf crop slightly below average.

GLACIER: Cold week with .27 inch rain and wet snow Friday night. Seeding practically completed. Much spring wheat coming through. Pasture and range grasses growing rapidly except on hills, where grass is drying up on the ridges. Lambing practically done; good crop of lambs. Fair calf crop on ranges. Livestock generally in good condition. Labor balanced. A few local reports of army worms; one serious outbreak, under control.

HILL: - Light precipitation. Seed germinated in fair shape. Deficiency of soil moisture. Wheat seeding 90% completed. Some start made on summerfallowing. The dry weather is holding back on some seeding. Range grass starting very slowly, which is requiring some supplemental feed for range stock up to the present time. Livestock in just fair shape.

JUDITH BASIN: No precipitation; high winds; cool. Growing conditions poor. Soil moisture below normal; rain needed badly. About 50% of winter wheat will not need reseeding; spring wheat seeding well along. Soil blowing serious. Crickets worst in history. Grass growing slowly. Calving well advanced. Lambing will soon be past peak.

LAKE: Weather warm and clear the past week; light freeze Wednesday night. No apparent crop damage. Light showers in parts of the county Tuesday night. Growing conditions favorable. Spring wheat up in many localities. Most spring seeding done. Peas seeded in parts of county with slightly increased acreage over 1936. Most farmers seeded alfalfa and clover the past week. Water has been turned into ditches in most irrigated sections and plans are to irrigate about the 10th of the month. Grass improving with warmer weather. Farm labor continues scarce. Cricket dusting has started.

LEWIS & CLARK - BROADWATER: Local shower in Helena area. Moisture generally deficient in both counties. Growing conditions only fair with considerable cool weather. Spring grain starting good generally. Potatoes being planted with some increase in acreage. Some evidences of winter killing of alfalfa. Good germination of crested wheatgrass planted last fall. Percentage of lambs normal or better. Grass has grown remarkably in the last two weeks, but needs moisture to continue. Grasshoppers beginning to hatch in both counties. Mormon crickets evident in Augusta and Craig areas, with some poisoning being done.

MADISON - JEFFERSON: Warm, with cool nights and freezing in some localities. Shower Friday evening helped the grass but did little good to other crops. About 90% of grain crops planted; soil so dry in some areas that grain may need to be irrigated before it will grow. Some early planted grains suffering for lack of moisture. Nearly everyone who can get water is irrigating. Heavy winter killing of alfalfa reported from vicinity of Waterloo. Some damage also occurred near Whitehall. Most stockmen beginning to turn stock out on grass, and thus relieve the hay situation. Good lamb and calf crops still being reported except in a few instances. Stockmen and farmers could use more men to help with work if they were available. Mormon crickets continue to hatch in areas which were infested in 1936. Grasshoppers are just beginning to appear.

MEAGHER: No precipitation; ground drying rapidly; snow gone now. Enough grass for livestock now, but almost stopped growing on account of dry top soil. Uncultivated land baking; cultivated land still in fair to good condition. Spring grain not showing up. Lambing progressing satisfactorily, regarding both weather and drop. Stock more than half turned out this date. Labor demand and supply at about 100%. Crickets hatching strongly just out of northwest corner of county. Infested areas in county not reported yet. No hoppers reported to date.

(Continued on Page 3.)

MISSOULA: Warm and dry first of week. Good shower Friday night. Excellent growing conditions. No sub-soil moisture in dry land communities. Alfalfa making good growth. Some early seeded spring grain coming up. Winter wheat that was not killed out is making good growth. Fruit trees beginning to bud out. Asparagus and rhubarb ready for market. Sugar beet planting practically completed. Potato planting starting. Pastures greatly improved. Cattle showing improvement.

MUSSELSHELL - GOLDEN VALLEY: The western portion of Golden Valley County had some moisture the past week. Growing conditions in the balance of the two counties not very good due to the winds. The extreme southwestern corner, covering about four townships of Golden Valley County, still have plenty of moisture from the snow they had last winter. The cutworms have damaged winter wheat in and around Belmont, south of Lavina, and the area just north of Broadview. A little damage is found in winter wheat south of Ryegate. The balance of the winter wheat area has not been affected yet. Part of the spring wheat seed is coming up. Crops growing very good up to the present time. Need rain. The indications are that we are going to have grasshoppers in certain communities. Does not look as though they will be general. Mormon crickets are working south of Ryegate in the Big Coulee district, and it will be necessary to do dusting to see if it isn't possible to control them in that area. Livestock thin, but gaining in strength. Lambing in full swing, with a good percentage of lamb crop. Calving has started and the losses do not seem to be as heavy as it was first expected, due to the weakness of the cows.

PARK: - Warm weather; one shower causing grass to start in fine shape. Seeding in Yellowstone Valley and south half of Shields Valley practically completed, with about half of spring grain up nicely. Field operations in upper Shields county just well under way. Winter wheat looking good. Some fields of alfalfa winter-killed. Moisture conditions in soil better than past several years. Crickets hatching out in four areas; control program being organized in these communities. Main supply of grasshoppers not hatched. New grass available and most stock being turned out; some still on feed. Feed supplies practically gone. Livestock in fair shape. Labor situation balanced.

PHILLIPS: No precipitation; moderately high winds all week. Surface moisture nearly gone. Greater part of dryland crops now planted; generally less being seeded than last year. Subsoil moisture deficient and in some sections the surface moisture only sufficient to start crops. Approximately 80 per cent of sugar beet acreage planted, most of which will have to be irrigated up. Indications are that irrigation water will run short before the main supply reaches this area. Small number of grasshoppers hatching over widely scattered areas, but a serious local outbreak is not expected. Livestock condition fair. Range grass slow coming on account of cold weather, although some growth was made this week. Stock water generally enough for the present. Calf and lamb crop about normal. Labor situation balanced.

PONDERA: Weather continuing dry, except for a light rain on Friday. Approximately all wheat seeded this week. Soil conserving crops being planted and will probably be completed by the end of next week. Some wheat up. Moisture reserves extremely low. Grasshoppers beginning to make appearance. Some damage of wheat through Pale Western Cutworms. Percentage of lamb crop in farm flocks will not be up to normal. Labor balanced.

PRAIRIE: No precipitation of consequence. Weather has warmed up considerably, and grasshoppers are beginning to hatch. Cool and cloudy Saturday, with threatening showers. Crops are coming up in good shape with good stands in evidence. A good rain would do a lot of good to keep the crops improving. Lambing is well under way with operators saving most of the lambs. Cattle are beginning to show the effects of green grass, but a rain would be of material benefit. Supply of water is adequate for the present, with some water in most of the Resettlement reservoirs. Labor supply is ample.

RICHLAND: Too cool most of week for best crop growth. A few light scattered showers in parts of the county on Thursday. Rains needed in southern and western parts of county to start crops. Irrigation being carried on in the Valley to start beets. General crop outlook in dryland areas poor. No alarming increase in insect pests noticed as yet. An apparent increase in vegetable production in the Valley, particularly onions, is reported. Livestock situation unchanged. Pastures slow in starting.

ROOSEVELT: No precipitation. Wheat is growing good, but moisture is needed soon. Wheat is practically all seeded. Corn seeding has started. Some soil blowing. Livestock in fair condition. Ranges not making much growth due to lack of moisture.

ROSEBUD: No precipitation. Temperature below normal most of the week. Winter wheat loss now appears to be about 50%. Most of this acreage has been reseeded. Dry land farmers have practically ceased further planting of spring grains because of unfavorable prospects. Some corn was planted during the week. Sugar beet planting practically completed. Beets on spring plowing being irrigated up. Lambing in full swing this week. Grass and water limited in some areas. Much of the range grass now appears to be dead. Some revival is expected if normal moisture is received during May and June.

SANDERS: Generally clear and warmer, with only a trace of moisture. Windy weather reducing moisture supply. Sufficient moisture for germination of all spring seeding. Winter wheat very spotted from lack of fall germination. Spring seeding generally completed. Early seeding coming up, with good stands. Meadows

(Continued on Page 4.)

SANDERS: (Cont'd.) making good growth. Gardens mostly planted. Potato planting just beginning. Livestock in good condition and making good gain on range, which is making rapid growth. Very low water storage for irrigation projects and serious outlook for water supply from shortage of snow in high altitudes.

SHERIDAN: Dry; several days of severe wind; three days of warm, excellent growing weather. A small number of fields are getting green, but crops in general have been retarded by cool weather. A small amount of wheat seeding continues. Grass has been slow and most cattle are getting thin as other feed is refused after a taste of green grass. Grass is growing only in low spots and where moisture from snow has penetrated the soil. Gopher poisoning by farmers continues in spite of adverse conditions.

SUN RIVER PROJECT: Weather continues dry. Farmers irrigating before seeding or planning on irrigating immediately after seeding to start germination. Fields fall irrigated generally have enough moisture to start germination. Some early fields of grain coming up, and alfalfa and sweet clover starting to grow nicely. Some livestock going on grass, but generally very little grass except in protected places. Labor ample to take care of all needs.

SWEETGRASS: Scattered showers. Approximately one-third of the county received from .25 to .50 inch, while the balance of the county only received a trace to .25 inch. Growing conditions backward due to continued cold weather. Light frosts practically every night. Spring seeding 80% completed. Crops growing slowly. Winter wheat damage appearing greater; estimated at 40%. Considerable alfalfa winter killed. Lambing of small flocks practically complete, with an average of 98%; larger flocks under way and starting by the 15th. Sheep generally all on grass, doing well but forced to cover large territory due to slow grass growing weather. Calving generally complete. Cattle on meadows and lower ranges. Still some loss due to poor wintering. Cricket control work will start next week.

TETON: Days mostly cool with low temperature at 26. Slight precipitation last of week. Wheat that is up looks fine, but it will need a rain within the next week or ten days if it is to continue. Many farmers have stopped seeding operations due to lack of moisture in the seed bed. Range is in very bad condition. Livestock reported to be in about the poorest condition for this time of the year for many and many years.

TOOLE: Good growing weather with cool nights. Touch of frost in higher portions. Crops seeded and all coming up in good shape. Most operators are now working with summerfallow. Good rain would be welcome in the county any time as the bulk of the crops are seeded. Livestock generally in good shape. Lambing coming along all right. Plenty of labor.

VALLEY: No moisture past week. Last two days considerably warmer, making growing conditions better. Crops that have been seeded are coming through and will make good if we get rain within the next few days. Very few grasshoppers showing up to date, but of course the last few days of warm weather will bring them out probably. Range conditions are very poor. The only place grass is beginning to show up is in the low places or where snow laid last winter. Stockmen are having a fair crop of calves. Sheepmen are just starting to lamb. Very little call for labor.

WHEATLAND: Extremely dry in central and eastern part of the county. Small amount of moisture received during the past week in the extreme northeast and southwestern part of the county. Spring seeding is well advanced in the dry land area in the county. There is need for moisture in all the farm areas, particularly in the north part of the county. Range grass is very backward, particularly in the central and eastern part of the county, due to lack of moisture.

WIBAUX: No precipitation. Warm weather during forepart of week. Cool latter part. Good growing conditions for wheat that is up. Some of late seeded grain needs moisture for sprouting. Some farmers stopped planting because of dry conditions. Wheat seeding completed; about 25% of normal planting. Barley and oats will be far short of normal unless moisture conditions improve. No change in livestock situation. Ranges are not making any headway.

YELLOWSTONE: Weather warm and dry, with considerable wind throughout the week. Winter wheat continuing to show good growth, but ground getting very dry. In a few areas, crickets have done considerable damage to winter wheat, but are being fought off as rapidly as possible. Considerable spring grain is up and showing good growth. Beets all planted; some beets up, but those that are not up, as well as those up, are being irrigated as rapidly as possible. All irrigation canals running full in the valley, and irrigation in full swing. Range grass at standstill due to dry weather. Range lambing drawing to a close. Many water holes are drying up, and lambs are being moved to new locations due to shortage of water. Stock in good shape, but in need of rains to continue grass growth and fill up reservoirs. Twenty-eight crews with a total of approximately 180 men fighting crickets. Crews are being increased and will be built up to approximately 300 men within the next week.

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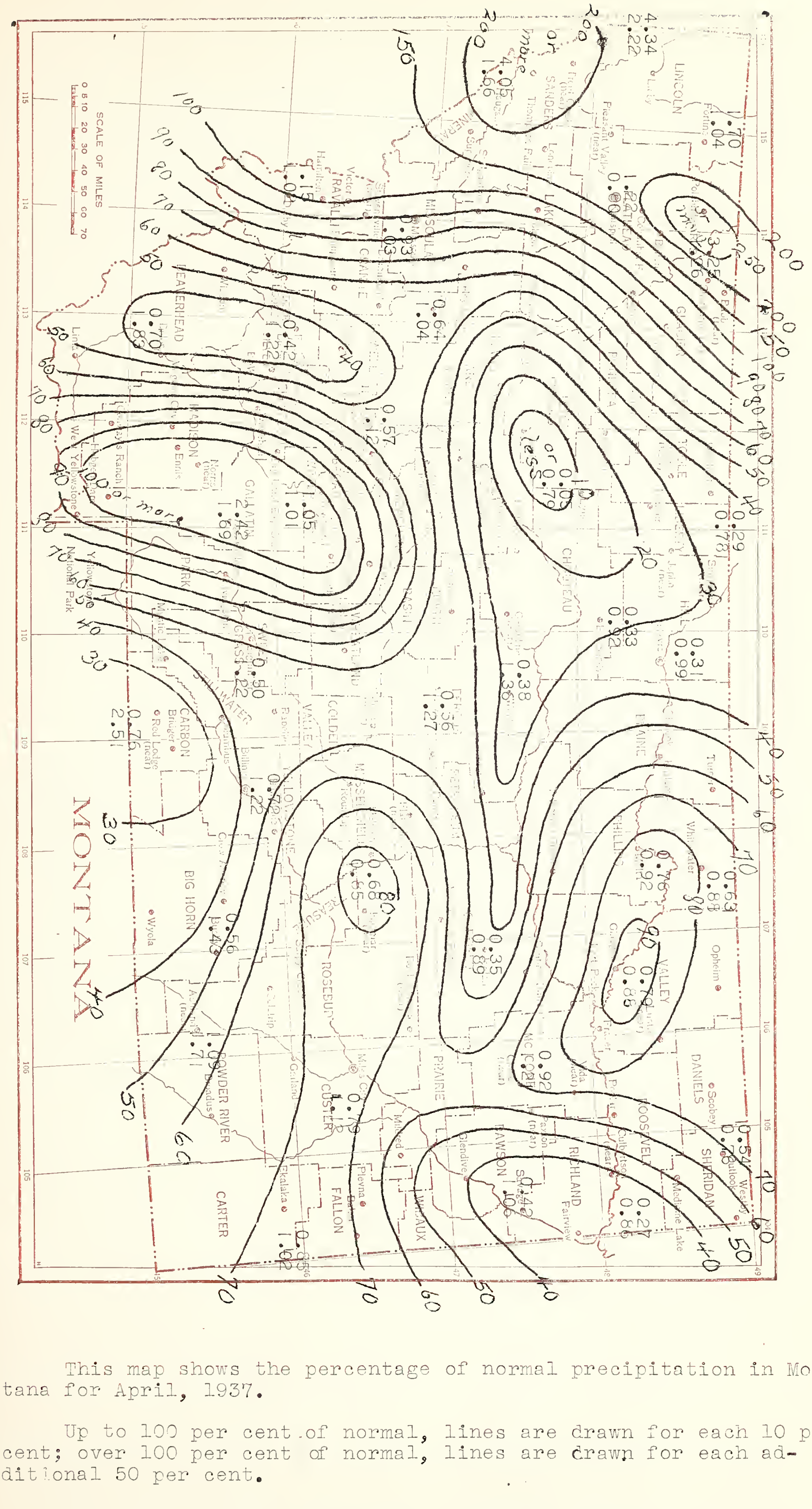
Helena, Montana,
May 12, 1937.


MONTANA
SCALE OF MILES
0 5 10 20 30 40 50 60 70
LINCOLN
FLATHEAD
SANDERS
MINERAL
LAKE
MISSOULA
RAVALLI
GRANITE
GLACIER
TOOLE
CHOUTEAU
BEAVERHEAD
MADISON
GALLATIN
PARK
CARBON
SWEET GRASS
STILLWATER
YELLOWSTONE
BIG HORN
BLAINE
PHILLIPS
VALLEY
DANIELS
SHERIDAN
ROOSEVELT
RICHLAND
DAWSON
PRAIRIE
WIBAUX
FALLON
CARTER
POWDER RIVER
CUSTER
ROSEBUD
GOLDEN VALLEY
MUSSELSHELL
FERGUS
PETROLEUM
McCONE
200 or more
or less
or more

This map shows the percentage of normal precipitation in Montana for April, 1937.

Up to 100 per cent of normal, lines are drawn for each 10 per cent; over 100 per cent of normal, lines are drawn for each additional 50 per cent.

The upper of each typed pair of figures indicates the actual amount of precipitation that occurred in that respective area during April; the lower figure of each pair indicates the normal precipitation for April.

U.S. Weather Bureau,
Helena, Montana

AGRICULTURAL ADJUSTMENT ADMINISTRATION
MAY 22 1937
MAIL UNIT
OFFICE OF COMPTROLLER

UNITED STATES DEPARTMENT OF AGRICULTURE
Weather Bureau —— Bureau of Agricultural Economics

REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA

For the Week Ending Tuesday, May 18, 1937.

Issued jointly by the Division of Crop and Livestock Estimates and the Weather Bureau.
Offices: Fourth Floor, Federal Office Building, Helena, Montana.

Growing conditions were mostly poor during the week ending May 18th as a result of cool nights, high winds, and continued dryness. Strong winds continued to take moisture from topsoils and caused considerable soil blowing. In a number of dry northern and eastern districts, part of the grain crop was blown out or cut off. Both spring and winter grain crops were affected, with damage in some instances estimated as high as 25% of the planted acreage. In Teton County, soil blowing was as prevalent on range lands as anywhere else.

With seeding activities mostly completed or held up in the hope of getting rain, farm work during the week centered mainly around summerfallowing, irrigation, and the planting of corn and potatoes. Planting of beans was started in the Yellowstone Valley, and the first cultivation of beets was reported under way in the Missoula district. Gallatin Valley reported a good supply of irrigation water available, but a light runoff to date in other districts has limited the use of irrigable acreage and aroused apprehension as to an adequate supply through the growing season unless good rains come.

Dryland crops east of the Divide need rain badly. Some late-sown fields have not germinated, and stands in others are uneven, with growth slow because of cool nights and unfavorable moisture conditions. Spring wheat is reported still doing well in the extreme northeast. Condition of grain crops in the Gallatin Valley and west of the Divide is good. Where grain stands are thin, fields are becoming weedy. Fruit trees are mostly in full bloom. The bloom has been heavy, with weather conditions generally favorable for pollination.

Ranges and pastures in eastern and central sections are becoming very dry. Some are beginning to turn brown, especially on the ridges and hills. Some late types of grasses have not started in the east. Grass in Beaverhead County and west of the Divide is reported making good growth. Alfalfa is doing well under irrigation, but is poor on dry land.

Livestock for the most part continued to gain. In Teton County livestock are rather poor, and in Valley County are reported losing weight. Some areas in the north will likely be forced to move livestock soon unless rains come immediately and greatly improve range conditions. Lambing is nearly over with generally good results, but feed continues a problem for many eastern sheepmen because of the slow growth and thin stands of grass. Shearing progressed in the west with most favorable weather conditions.

Large numbers of grasshoppers have hatched recently in southern districts, but damage to crops and range so far has been negligible. Crickets have damaged some winter wheat in the south, and are beginning to show migrating tendencies.

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WEEKLY TEMPERATURE AND PRECIPITATION DATA

Station	Temperature		Total Precipitation		Sunshine
	Highest	Lowest	This Week.	Since April 1.	Percent of Possible.
Billings	92	39	T	0.82	*
Bozeman	82	34	T	2.81	*
Cut Bank	78	27	T	0.70	*
Fort Peck	80	40	T	0.35	*
Glendive	83	32	0.02	0.46	*
Great Falls ...	83	37	T	0.22	*
Havre	84	34	0.03	0.48	82
HELENA	77	34	T	0.67	75
Kalispell	70	34	0.01	1.57	78
Lewistown	86	29	0.00	0.61	*
Malta	80	34	0.01	0.79	*
Miles City	78	38	T	0.99	80
Missoula	80	36	0.08	1.26	70
Poplar	82	33	T	0.48	*

*No data.

Series 1937 - No. 7.
Helena, Montana.
May 19, 1937.

W. E. Maughan, Weather Bureau.
Jay G. Diamond, Division of Crop and Livestock Estimates.

The following county summaries of crop conditions for the week ending May 15, 1937, are furnished through the courtesy of Director J. C. Taylor, Montana State Extension Service:

BEAVERHEAD: No precipitation; cool; winds taking moisture, leaving soil dry. Irrigation water low; no run-off in mountains to date. Grass good. May lambing good to date.

BLAINE: No precipitation. Extremely windy, which caused considerable soil blowing and some damage to crops. Many farmers have discontinued seeding until moisture is received. Irrigated farmers are now irrigating all growing crops. Sugar beets practically all planted. Dry land grains are very spotted due to moisture conditions. Livestock condition unchanged. Range in many sections is beginning to burn from lack of moisture. Stockmen report excellent results in both lamb and calf crops. If moisture is not received within the next two weeks, it will be necessary to remove a large part of the livestock that is now in the county to grass.

CARBON: Little or no precipitation during the week; high dry winds prevailing. Weather somewhat cooler. Winter wheat showing up well, but with some loss in certain sections due to blowing. Practically all seeding of grain completed. Some corn planted during the week. No beans planted as yet. Livestock in fair shape. Some shortage of labor due to Mormon cricket control work now being carried on in nine communities, with five others starting this week. Grasshoppers hatching and reported very plentiful in some sections of the county.

CASCADE: No precipitation. High winds and comparatively cool weather the past week has done considerable damage to winter wheat and killed an additional percentage of stands which looked fairly good a week ago. Some damage has been reported from army worms, cutworms, and crickets, and grasshoppers continue to show increase in numbers. A WPA project has been organized for the control of Mormon crickets. The seeding of sugar beets on irrigated land is about complete, while many farmers are still irrigating land in preparation for seeding small grains and potatoes. Range grass has made fair showing in the southern part of the county, but in other sections there has not been sufficient moisture to even start it. Cattle are moving out of the western part of the county due to lack of grass and prospects for summer range. Labor situation is normal.

CHOUTEAU: The week was characterized by severe winds and no rain. Weather generally cool, with poor growing conditions. Spring wheat seeding completed unless moisture conditions become more favorable. Much soil blowing injuring both spring and winter wheat. Winter wheat prospect is rapidly decreasing. General crop prospect and financial condition of farmers very poor. Livestock in general is showing only fair gain. Crickets are completely hatched and farmers showing good cooperation in control program.

CUSTER - POWDER RIVER: Light rain last weekend; two days of hard drying wind. Fair growth of grass and crops. Warmer days and rain needed Grain crops up. Irrigated alfalfa looking good, but fields with good stands are few. Dry land crops not suffering yet, but moisture is needed. First irrigation now under way. Many ranchers holding off on further farm operations, awaiting rain. Much land will lay idle this year. Range situation still uncertain. Grass providing more forage and stock are beginning to show some gain. Considerable sagebrush appears to be dead. Late grass will need more rain to get a start. Lamb and calf crops only fair, with comparatively little loss. Grasshoppers being reported, but outbreak confined to local areas thus far. Crickets beginning to migrate.

DANIELS: Light precipitation southern and eastern area of county May 10 was followed by continuous 48-hour wind storm which seriously damaged grain crops throughout the county. Early seeded grain germinated well, indicating good stand; the recent wind storm injured plants seriously. Surface moisture evaporating rapidly. Rain needed soon. Corn and potatoes being planted. Pasture and ranges deficient. Hay and cotton cake being fed to ewes and cows. Hay being shipped from Michigan. Ample labor for all demands. Season too cool for hatching of hopper eggs.

DAWSON: Severe wind and dust storms during week doing a large amount of damage to crops and sapping moisture badly. Plowing for corn rather general, but field work largely stopped as result of unfavorable conditions. Wheat seeding complete, and small feed grain acreage somewhat reduced. Some corn planted, but many holding off a few days, hoping for moisture. Lambs have been strong and lambing generally favorable, despite grass short, necessitating considerable movement. Grass just not coming like it should.

FALLON - CARTER: Scattered showers, with moderate temperature and high drying winds the past week. Growing conditions unfavorable. Moisture much below normal. Crops not suffering as yet due to slight amount of sub-soil moisture. However, top soil very dry because of high winds. Conditions will become critical if winds and dry weather continue. Grass growing slowly. Grama and Buffalo grass alike have shown very little signs of growth as yet this spring; Western Wheat and Blue Bunch grass furnishing the grass so far. Lambing and calving well under way.

FERGUS: Dry, but cloudy and cool during week; no rain. Spring wheat seedings making satisfactory growth in spite of very little moisture. Winter wheat slow, but making some progress. Alfalfa starting where not winter killed. Livestock making rapid gain in condition even though grass is backward. Lambing operations in full swing with many folks reporting more satisfactory lamb crop than was expected. Crickets numerous east of Straw, with control crew already in the field. Grasshoppers hatching in large numbers, with control work expected to start next week.

(Continued on Page 2.)

FLATHEAD: Weather cloudy, cold, and windy, with some precipitation during the week. Favorable top soil moisture conditions have held the soil from drifting very badly. Considering all factors, growing conditions only fair. Most of the small grain seeded and in most sections of the county is showing up very well. Livestock in good condition. Pasture and range good.

GALLATIN: Cooler weather, partly cloudy; no precipitation and an increase in the amount of wind. Field work progressing rapidly in all parts of the county, with seeding completed in the western part and summerfallow operations started. Alfalfa and pastures both native and tame beginning to show excellent growth. Nearly all irrigation ditches carrying water, and high water present in all streams. Range lambing continues.

GARFIELD - PETROLEUM: No precipitation. Crops rather seriously suffering in most of the areas by very high winds. Early seeded crops show fairly good stands, and where soil drifting has not been serious still have a fair chance. Many fields and especially late seedings practically ruined by blowing out and drifting. Grass in Petroleum County and northwestern Garfield has made average headway; thin stand but good growth. Southeastern and central Garfield County have as yet very little spring grass. Dry and warm weather very favorable for lambing; now over 50% complete. In the better grass areas at the present time sufficient forage should be available to carry the ewes and lambs in fairly good shape. Calf crop reports below average, and some loss due to calving.

GLACIER: Cold, cloudy, and very windy all week, with no precipitation. Severe dust storms first of week. High winds sapping moisture rapidly. Practically all seeding completed. Farmers are generally all getting their summerfallowing done. Quite a large acreage of grain up and doing fine, although cold weather retarding growth. Range badly in need of rain. Livestock in good seasonal condition. Practically all outfits going to have moved in on summer range. Labor adequate. No serious pest outbreaks reported.

HILL: Trace precipitation past week. High winds of Monday and Tuesday of this week have destroyed 10% of the wheat acreage, with another 10% badly cut off and damaged and future conditions will determine what this latter 10% will do. Fields are now in bad condition and much more susceptible to soil blowing on account of damage done during the early part of the week. Range grass growing only where snow banks have lain and still some melting banks have penetrated into the soil. No grass has started on the ranges that were bare during the thawing period. Livestock in just fair condition.

JUDITH BASIN: No precipitation; high winds; extreme soil blowing; temperatures moderate. Season backward. Soil moisture extremely lacking; crops in need of rain. Doubtful if wheat now being planted will germinate properly. Grasshoppers starting to hatch. Cricket infestation spread throughout the county, and appears to be serious menace to crops this year in case rain should improve crop prospects. Lambing will be over within the next two weeks. Livestock conditions fair. Calf and lamb crop good. Range improving slowly. If rain does not come soon, parts of range will never turn green.

LAKE: Intermittent rain in most of the county throughout the week, particularly in the eastern section. .13 of an inch rain fell from May 1 to May 10. Spring grain up in most localities with good stands. Alfalfa and pastures making good growth. Some farmers have started using irrigation water. Shearing started. Cricket poisoning well under way, with apparent good results.

LEWIS & CLARK - BROADWATER: Only appreciable precipitation in either county occurred at Lincoln. Weather too cool for best growing conditions. Considerable wind has depleted moisture supplies. Rain needed badly in both counties. Practically all grain crops planted. Potato planting progressing normally. Considerable summer fallowing completed. Acreage of all crops limited to some extent because of a lack of rain and irrigation water supplies Livestock in good condition. Grass has made good growth despite cool weather. Reports of grasshopper hatchings increasing in both counties. Poisoning has started in Lewis & Clark County.

MADISON - JEFFERSON: Weather dry during week in most of the areas in both counties A few communities received showers that were beneficial to the grass. Where moisture conditions have been favorable, crop conditions are excellent, but in many cases crops are already suffering from lack of moisture and farmers are pushing their irrigation water as fast as possible. Some dry land farmers are reseeding part of their winter wheat fields in the hope of securing a crop of spring wheat in place of winter wheat. Livestock conditions improved during past week due to growth of new grass which, in most cases, has done away with the necessity of feeding hay. Good results reported by sheepmen whose sheep are lambin in May. Grasshoppers and crickets hatching in increasing numbers, with most of crickets having emerged already. Grasshopper bait is being prepared for poisoning campaign, but no county funds available for cricket control.

MEAGHER: Continually dry, cool, and windy. One shower latter part of the week; just enough to settle the dust. Winter grains retarded because of dryness. Range grass not doing very well because of coldness and dryness. Lambing in full swing, but ranchers handicapped because of lack of grass and having to feed hay. Labor demand and supply about equal.

(Continued on Page 3.)

MISSOULA: Bright and warm most of week; good shower Thursday. Good growing conditions but no sub-soil moisture for reserve. Irrigation water turned in to most irrigation districts. Not much water run-off in mountain streams. Alfalfa and spring grains making good growth. Planting practically completed for all spring crops except truck and potatoes. Fruit trees in blossom. Pastures and lower ranges in good condition. Livestock improving in condition.

GOLDEN VALLEY - MUSSELSHELL: High winds the past week. Soil blowing very badly. No moisture. Weather fairly cool. Winds have done considerable damage to the crops, especially the spring grain just coming up. Did not damage winter wheat as badly. Spring seeding about at a standstill due to the high winds and the drouth. Grasshoppers are showing up in a few small areas. Mormon crickets becoming serious in the south portion of the Big Coulee. The livestock situation is just about the same with the exception of a few small areas; the grass has received enough growth to be of some value. Livestock losses decreased materially the past week.

PARK: Cool weather causing grass and grains to grow very slowly. Spring grain up in southern part of county, but field operations only half completed in Wilsall area. Some worm damage to winter wheat and quite a number of alfalfa fields partially winter killed. All range livestock on grass, but grass very short. Hay supplies practically exhausted. Some demand for farm laborers, especially experienced irrigators. Cricket poisoning will get under way next week. Grasshopper bait will be mixed to combat early hatchings.

PHILLIPS: Continued dry weather with moderately high winds and low temperature. Considerable soil drifting in lighter soil areas. Subsoil moisture extremely low and surface moisture going rapidly. Warmer latter part of week. Practically all crops seeded; some waiting for rain before seeding. About half of corn in. Sugar beets and other crops in valley about 90 per cent planted. Valley farmers irrigating crops up. Most of early planted crops put in on well prepared ground are growing. Grasshoppers hatching in scattered localities, but not in damaging numbers to date. Range improving slowly. Most of the cattle and sheep on grass with condition fair to good. Lamb and calf crop reported slightly below normal. Labor balanced.

PONDERA: Weather dry and windy. Considerable soil blowing on freshly worked summer fallow, however, spotted and streaky. About 25% of the wheat up and still growing good. Some slight damage done by high wind storms this week. First operation of summer fallow approximately 100% completed. Range grasses coming slowly; extremely cool days and lack of moisture has prohibited much growth. Some interest shown in the exchange of sheep and cattle, with those who have better pasture facilities. Some exchange of milk cows. Practically no movement to market. Lamb crop will decrease by reason of lack of grass and feed reserves. Farm flocks will probably average 95%; range flocks will do well to average 70%. Labor balanced.

PRAIRIE: No precipitation. Weather cold and windy. Crop conditions have been unfavorable. Grass is slow in starting. A considerable amount of Grama grass has killed out. Livestock is thin and is going through a critical period with the grass getting such a slow start. Lambing is in full swing, with a full percentage of lambs being saved. Labor supply is ample.

RICHLAND: No precipitation. Winds throughout week. Crops badly in need of moisture. Soil blowing increasing. No great outbreak of grasshoppers as yet. Livestock in fair shape as yet; however, unless the pastures improve greatly, range stock will suffer.

ROOSEVELT: No precipitation during the week, and soil is getting too dry for plowing. Early seeded grains still looking good, and stands have been exceptionally good. High winds on May 11 and 12 caused considerable soil drifting and damaged hundreds of acres of crop. Wheat seeding practically completed and some corn in. In general, farmers have stopped seeding until a good rain comes. Seed corn plentiful. Grass making very good growth, particularly in the west end of the county.

ROSEBUD: Light rain first of week of some help in germination of sugar beets. High winds most of week further depleted soil moisture. Considerable acreage of grain and new alfalfa blown out. Growth of crops rather slow due to unfavorable weather and lack of moisture. Irrigation fairly general throughout valley. Some of the late range grass has not started; earlier grass showing some effects of drout Livestock in general show some improvement over previous week. Calving and lambing progressing satisfactorily. Very few grasshoppers have hatched to date.

SANDERS: Precipitation .41 inch the past week in form of light showers. Higher temperatures. Good growing conditions. Winter wheat making fast growth. Spring grains making good growth under fair moisture conditions. Fruit trees in blossom, with evidence of good fruit crop. Livestock making good gains on range. Range grass showing need of rain.

SHERIDAN: Damaging wind for two days; severe southeast wind one day. Some soil blowing, especially on large fields and fields where soil has been pulverized. Scattered showers in southeast and northwest sections; value negligible due to severe winds following. Many fields are suffering from lack of moisture, especially those having a small amount of snow. A few fields must be reseeded due to wind erosion, but will not be if rain does not come soon. Similar to last week. Farmers are looking for work now that the rush of spring seeding is over. No reports of grasshopper hatchings to date.

(Continued on Page 4.)

AGRICULTURAL ADJUSTMENT ADMINISTRATION
MAY 1937
OFFICE OF COMPTROLLER

STILLWATER: Weather continues cool, with high winds prevailing. General growing conditions for grain poor, although grass is making fair growth. Poor to fair conditions for most crops. Rain needed in all sections of county. Some farmers irrigating sugar beets up. Heavy infestation of crickets in several areas of county. Grasshoppers hatching. Livestock in poor to fair condition. Lambing in full swing with good lamb crop reported.

SUN RIVER PROJECT: Continued dry and windy. Practically all alfalfa and pasture fields irrigated. Many farmers irrigating grain fields before seeding, and fields seeded before irrigating will have to be irrigated before crops will come up. Seeding of sugar beets practically finished. Most cattle on pasture. Practically no grass starting in pastures adjacent to the Project. Labor still ample for all the needs.

SWEETGRASS: Precipitation, none. Cloudy and cool, with considerable high winds during the week which absorbed a great deal of moisture. Growing conditions backward due to cool weather and no moisture, but advancing surprisingly well considering these conditions. Spring grains are coming up with fairly good stands; growing slowly. Range, pastures, and hay are growing slowly. Alfalfa on irrigated lands is now being irrigated and is showing improvement. Livestock is on pasture and range, and is gradually improving. Lambing in large flocks on range; good results reported. Weather has been favorable. Cricket control under way. Some damage to crops. Crickets growing rapidly and grasshoppers starting to hatch.

TETON: No precipitation. Terrific winds all week. Most severe duststorm of the year last Tuesday. Considerable amount of crop blown out and cut off by wind. Wheat seeding practically completed. Wheat coming up in eastern half of the county. The later seeding is absolutely dormant because of lack of moisture. Range is in very bad shape. Dust storms on the prairie just as prevalent as anywhere else. No grass growth except where snow banks lay. Livestock in rather poor condition.

TOOLE: High prevailing winds. No moisture. Considerable soil blowing, but no reports of crops being blown out. Crops coming up in good shape, but rain will be needed soon. No moisture during last month. Rain badly needed on range. Grass starting to turn brown. Hills drying up rapidly. Labor plentiful. Cricket control work has started along Marias River.

VALLEY: Trace of precipitation in two localities and three days of exceedingly high winds. Growing conditions very unfavorable. Winds did considerable drifting as well as further depleting the soil moisture. Early seedings showing very good results, but the high winds and continued dry weather has prevented any growth the past week. It is estimated that the high winds have whipped out and cut off crops, making a 20 or 25% crop damage. Sugar beets are having to be irrigated up. Farmers are very much discouraged. Livestock are losing weight. Lambing getting in full swing. The ewes have very little milk so there is some loss of lambs. No labor needed. There is no outbreak or infestation of grasshoppers to amount to anything at this time.

WHEATLAND: Continued dry, cold, and windy during the past week. Little improvement in range grass can be expected until rains are received. Much of the early spring seeding is up. Seeding is about completed in the dry land areas, unless rain is received at once. Acreage seeded to date in dry land areas 50% of normal. Lambing well advanced in county. Several of the larger operators are through. Lamb crop good.

WIBAUX: No precipitation. Cool weather. Good growing conditions for wheat where moisture is still sufficient. Consideragle cutworm damage reported from one community. High winds during most of the week. Considerable soil blowing over the entire county. Some wheat fields still looking fairly good. Corn was being planted quite generally this week although moisture will be needed before it will come up. Lamb crop reported good on the average. Calf crop below normal. Ranges very poor, with no prospect for improvement unless a good supply of moisture is received.

YELLOWSTONE: No precipitation. Two days of extremely high wind. Growing conditions unfavorable. Winter wheat still shows growth, although ground is extremely dry. In some areas crickets are damaging wheat, but crews busily fighting in this area and partly keeping them under control. Spring grain is up in dry land areas. Beets are showing good growth in irrigated areas and have all been irrigated. Grasshoppers are damaging some small acreages, but poisoning operations are under way. Corn and beans are being seeded at the present time. All crops are being irrigated in the irrigated areas. Range grass showing deterioration due to dry weather, although early growth was excellent. Livestock all in fair shape. Operators worrying over prospective drouth conditions.

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Helena, Montana,
May 19, 1937.

UNITED STATES DEPARTMENT OF AGRICULTURE
Weather Bureau —— Bureau of Agricultural Economics

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REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA
For the Week Ending Tuesday, May 25, 1937.

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Issued jointly by the Division of Crop and Livestock Estimates and the Weather Bureau.
Offices: Fourth Floor, Federal Office Building, Helena, Montana.

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While moister than its predecessor, the week ending May 25th was well below normal in rainfall and too windy and cool for good growing weather. Light to moderate showers gave local relief in parts of southeastern and south-central Montana, but were inadequate elsewhere and almost negligible in the northeastern counties. Moisture conditions continued favorable in extreme western Montana, but declined further in most of the north-central, northeastern and east-central counties where continued wind damage to crops is reported. Light frosts in the western portions last Friday were without any serious damage to crops and fruit.

Seeding and planting operations have declined as a result of dry soils and unless rains come soon little further seeding of spring grains will occur. Planting of beans and corn continue in the irrigated areas of the Yellowstone, but in the dryland eastern corn sections dry weather has retarded plantings and may curtail acreage. Sugar beets, which have for most part been irrigated up, are now ready for thinning and blocking in the Yellowstone Valley and are reported making good progress in the west. Condition of winter wheat varies widely with continued damage by wind and drouth. Early spring wheat is making little headway and in some eastern counties is becoming weedy. Damage to this crop and other spring grains by high winds is reported heavy in such counties as Valley, Roosevelt, and in Daniels where about 10,000 acres have been seriously hurt. In Choteau and parts of Cascade county, where the month has been almost rainless, the spring grain crops are in serious shape. Immediate rains are reported to be needed over the greater part of the wheat areas of the State to prevent further damage and to revive the wind-whipped fields.

In the irrigated areas, crops have made fair progress, but now need warmer weather. Use of irrigation water is increasing, and farmers along the ditch are becoming concerned as to later supplies. Shortages are feared in such counties as Beaverhead, Cascade, Pondera, and Lake counties. In western Montana apple and cherry orchards have bloomed very heavily; prospects for apples and cherries are now better than a year ago.

Range and pasture growth continues slow and on the lighter soils grass is now beginning to curl and burn. High mountain pastures show good stands, but short growth due to the dry cool weather. Ranges in the plains country are now badly in need of rain, with stockmen in some cases soon expecting to face the problem of finding additional grass or selling off livestock. In western Montana livestock continue to make seasonal gains, but are not doing so well in some north-central areas and are still poor in northeastern Montana, where from Valley County come reports of stunted and weak lambs. For most part, however, lamb and calf crops have been reported good.

Grasshopper hatchings are increasing, but as yet damage to crops has not been large nor general, and control programs are under way in practically all of the infested counties. Mormon crickets continue to threaten crops in some southern and southeastern counties.

WEEKLY TEMPERATURE AND PRECIPITATION DATA

Station	Temperature		Total Precipitation		Sunshine
	Highest	Lowest	This Week.	Since April 1.	Percent of Possible.
Billings	84	41	0.32	1.14	*
Bozeman	77	32	0.37	3.18	*
Cut Bank	76	30	0.15	0.85	*
Fort Peck	79	44	0.01	0.36	*
Glendive	84	40	0.00	0.46	*
Great Falls	85	33	0.01	0.23	*
Havre	86	40	0.14	0.62	50
HELENA	81	34	0.12	0.79	72
Kalispell	80	34	0.23	1.80	68
Lewistown	84	35	0.32	0.93	*
Malta	83	37	0.21	1.00	*
Miles City	78	46	0.34	1.33	78
Missoula	82	36	T	1.26	70
Poplar	80	38	0.00	0.48	*

*No data.

Series - 1937 - No. 8.
Helena, Montana.
May 26, 1937.

W. E. Maughan, Weather Bureau.
Jay G. Diamond, Division of Crop and
Livestock Estimates.

The following county summaries of crop conditions for the week ending May 22, 1937, are furnished through the courtesy of Director J. C. Taylor, Montana State Extension Service:

BEAVERHEAD: No precipitation; strong winds; cooler, with frost one night in Beaverhead valley. Irrigated crops in need of moisture and water supply very low. Grass on ranges good, but in need of moisture. Lambing nearly over, with good crop reported. No activity in wool. Grasshoppers hatching.

BIG HORN: Showers during the week helped, but not general enough to do much good. The larger part of the county is still dry and badly in need of rain. In spite of the continued drouth, the winter wheat looks fair; spring wheat somewhat dubious; valley crops nearly all irrigated; alfalfa making good growth and beets somewhat spotted. Range fair, and cattle in good shape. Crickets menacing a major part of the county and Crow Indian Reservation. Control campaign under way including such means as hand dusting guns, power guns, burners, and barriers. Grasshoppers also appearing.

BLAINE: Very light shower of rain fell Thursday evening. Extreme high winds prevailed the entire week with the exception of Thursday and Friday. Considerable damage reported to crop and summerfallow fields from winds. General growing conditions poor. Most farmers have discontinued seeding until moisture is received. All crops on irrigated land are being irrigated up. Summerfallow cultivation discontinued because of the possibility of blowing. Cutworm damage being reported in the northeast corner of the county. Grasshoppers hatching in large numbers in the Bearpaw Mountain area. Livestock shows very little improvement over last week. Ranges in most areas are poor due to lack of moisture. In some areas the grass is now burning. In the Bear Paw Mountain area, grasshoppers are doing considerable damage. Stockmen are now looking for grass in other parts of this State or in Dakota. If dry weather continues much longer it will be necessary to move stock out of the county.

CARBON: Two good rains were reported in the Joliet, Fromberg, and Silesia area on Wednesday and Thursday. Some precipitation reported in the Belfry area, with very little or none in the Bridger and Roberts area. Alfalfa making a very good growth and dry land crops are much in need of moisture. All beet crops are well up and thinning will start within a few days. Grain crops looking good. The seeding of beans has just started and some corn is yet to be planted. Some labor shortage, due to Mormon cricket control work. Grasshoppers are hatching, and are reported as being very plentiful. Livestock condition fair.

CASCADE: Cool, cloudy weather throughout the past week has minimized crop losses from drouth. No precipitation has fallen this far in May, making it perhaps the driest May on record. Seeding of spring wheat is practically at a standstill, awaiting improvement of moisture conditions. Mormon crickets continued to threaten crops in southern sections of the county and grasshoppers are reported to be hatching in large numbers. Sugar beets, potatoes, seed peas, and other crops in irrigated sections looking fair and if irrigation water holds out, crop prospects in those areas are good. Grass on upper range lands is still fair, and stock are in fair to good condition, but rain is badly needed for both range and crop conditions. No surplus of labor.

CHOUTEAU: Continued dry and windy weather prevails during the week. Poor growing conditions and prospects for crops are decreasing daily. Soil moisture is deficient for germination and general prospects for the year are very poor. Livestock have been turned out on the range and the grass is generally inadequate. Mormon crickets are migrating.

CUSTER - POWDER RIVER: Hard, drying winds forepart of week caused severe damage to dry land crops. Light showers received following winds, but hardly sufficient to repair damage. All dry land crops need rain. High winds have blown out some grain fields and drifted soil on fallow lands. All crops under ditch being irrigated. Beets having to be irrigated to get stands up. Water supply still sufficient. Grass at a standstill until showers came. Early grass heading out and late grass still more or less dormant. Livestock continue to gain but condition still rather poor. Lambing continues and percentage of dry ewes may be rather high. Calf crop fair but coming slow. Grasshoppers appearing on range.

DANIELS: One light shower during week. Only .06 inch precipitation thus far in May recorded at Scobey. Continuous wind storms seriously damaged 10,000 acres crop in Four Buttes and Peerless area, west central district of county. Elsewhere crops holding up remarkably well considering lack of moisture and subjection to beatings of sand storms where planted with deep furrow drills. Rain in immediate future will revive many crops damaged by wind; some, however, entirely blown out. Range very poor. Some losses of cattle continue. Lambing progressing well. Molasses feed and other supplements being fed. Much interest in small irrigation projects. No insect damage reported to date.

DAWSON: Severe wind during week; no precipitation. Spotted areas scattered generally over the county starting soil blowing. Some loss of crops. Fields which are holding show grain maintaining itself. Corn plantings light. Field work practically at standstill. Grass continues slow with only growth in coulee bottoms and snow drift locations. Stock picking up slowly and outlook none too favorable. Hoppers beginning to hatch.

FALLON - CARTER: Extreme high winds. Severe soil blowing early part of week. Much of crop blown out and damaged. Scattered showers latter part of week stopped soil blowing for the time being. Crop conditions unfavorable. Due to small amount of moisture, crops have shown very little growth, while weeds are growing rapidly. Weeds will be a factor in early seedings. Moisture conditions

(Continued on Page 2.)

FALLON - CARTER: (Cont'd.) still unfavorable. Lambing operations about half through. Many sheep operators finishing up lambing operations this next week. Grass fair to good. Needs moisture.

FERGUS: Precipitation .26 inch. First rain in May light but general over county. Will help all crops and grass. Spring wheat looking good; wind has done some damage to crops during past ten days. Lambing over half completed. Average crop reported; sheep and cattle doing well. Cricket control men working southwest part county. Grasshoppers hatching in large numbers in all parts of county; poisoning work starting this week.

FLATHEAD: Very windy the first part of the week. Cool and cloudy during the latter part of the week. Growing conditions fair, with slight damage to crops by high winds causing some soil blowing the first part of the week. Moisture conditions are favorable. Most crops are planted and up, but warmer weather is necessary for more rapid growth. Livestock conditions good. Grass making only fair growth. Grasshoppers are reported to be hatching in range sections of the county. Too early to determine extent of infestation.

GARFIELD - PETROLEUM: No precipitation. Cool, cloudy, with several days high wind both east and northwest. Growing conditions poor. Further damage during past week from blowing. Spring grass where started beginning to show effects of drouth in some areas. Livestock conditions remain unchanged. Lambing almost complete with weather favorable throughout. Grasshoppers hatching out in spotted areas. Musselshell River Valley particularly infested.

GLACIER: High winds and cloudy. Shower on Thursday; very spotted, with 3 inches of fine hail in the northern part of the county. Seeding completed. Range good on west side although generally over the county rain needed. Livestock in good condition. Good calf and lamb crops reported. Adequate labor. No pest outbreaks reported.

HILL: - Precipitation .09 inch the past week. Moisture badly needed over entire county. The hard winds the first of the week did considerable more crop damage in the county. The warm weather of the latter part of the week has brought on the grass and the crops. Ranges are improving very slowly. Livestock in fair shape.

JUDITH BASIN: Temperature low. Rainfall very slight. Wind excessive. Growing conditions poor. Moisture needed badly. Range turning brown. Wheat growing slowly but will be ruined if rain is not received within ten days. Soil moisture very much below normal. Soil blowing extreme in some parts of the county. Western end of the county in best condition. Lambing and calving practically complete with excellent percentage. Feed situation becoming acute. Condition of livestock fair. The only green grass on ranges is in the coulees where snow drifting has caused moisture. Labor situation becoming acute. Many farmers huntin employment. Crickets unusually numerous. Grasshoppers hatching the past week.

LAKE: Scattered showers Thursday. Generally fair remainder of week. Growing conditions fair. Crop conditions favorable; farmers irrigating alfalfa and pastures. Few beets being irrigated up. Spring grain and peas normal. Irrigation water supply below normal. Shearing well under way with weather cool. Cricket control work advancing rapidly.

BROADWATER - LEWIS & CLARK: Weather variable, with fair growing conditions. Scattered showers, but moisture situation in general less favorable than a week ago. Drying winds prevalent. Slow growth in general because of lack of moisture. Some crop land left idle because of moisture situatic Some late feed crops being planted. Livestock in good condition. Ranges, in genera similar to a week ago. Burning of grass evident in some places even on higher elevations. Feed outlook for summer, fall, and winter unfavorable.

MADISON - JEFFERSON: Unsettled most of week, with a few cloudy days and some beneficial rains in several localities during middle of week. Hard frosts Thursday night. Showers helped, but not enough moisture fell to benefi crops and range. Irrigation canals running to capacity. Reseeding of winter wheat fields completed, also the planting of practically all grain under irrigation. Considerable increase in the acreage of potatoes. Large increase in the amount of phosphate fertilizers being used. Livestock improved somewhat. Good lamb crop being reported by those sheepmen whose ewes are lambing in May. First distribution of grasshopper poison started this week.

MEAGHER: No precipitation. Continued dryness. Grass almost at a standstill on account of lack of moisture. Temperature about normal; only occasional frosts. Only highest snow left in mountains. Some winter rye reported killed. all grain needs rain. Top soil very dry. Lambing 75% finished; reported very satisfactory. Considerable number of grasshoppers hatched on south fork of Musselshell. Crickets reported very serious just over northern boundary of county.

MISSOULA: Warm and dry all week. Frost reported 21st, but no damage reported. Soil moisture low. Rain badly needed. Irrigation started in all districts. Alfalfa making good growth. Early planted spring grain doing well. Late planted spring grain not germinating evenly and needs rain. Sugar beets show fair to good stands. Some fields need irrigating to get good stand. Potato planting nearly completed. Fruit trees in full blossom. Possibilities of good crop as bloom is plentiful. Early vegetables coming on market now. Cattle being put on range. Condition fair, but is improving with better grass.

(Continued on Page 3.)

MUSSELSHELL - GOLDEN VALLEY: About a quarter of an inch of rainfall fell in the Big Coulee area in Golden Valley County. Traces of moisture fell in both counties May 20th. The balance mostly dry, with high winds. Soil has blown considerably in most areas, with the exception of the Big Coulee. Crop conditions fair. Spring grain coming up and growing. How long it will continue without more moisture is hard to tell. A few places on the range turning brown, showing effects of drouth. Livestock improving on some new grass.

PARK: Cool weather retarding growth of grain and grass and checking snow run-off into creeks. Showers Wednesday and Thursday very beneficial. Grains and alfalfa looking good, but not growing as fast as normal for May. Grass looking pretty good, and livestock in fair condition. Quite a demand for farm and ranch laborers. Cricket control program under way in three communities and grasshopper poison is being called for by some farmers.

PHILLIPS: Weather continues cool. No precipitation. Growing conditions poor. Some wind damage reported. Spring seeding practically completed. Corn being planted although many farmers waiting for rain before going further. Early seeded grains spotted due to lack of moisture. Late grains slow. Valley farmers irrigating all crops up. Grasshoppers hatching in spots, but not as many expected as last year. Range grass beginning to dry up. Water still plentiful from April snow. Livestock condition unchanged. Rains needed to revive range. Lamb and calf crop reported normal. Labor balanced.

PONDERA: Winds have calmed down considerably this week, and while considerably cloudy, only a slight sprinkle on Thursday. Spring wheat has germinated and much was whipped off by high winds in approximately 30% of the area of the county. Barley and oat crops in spotted areas of the county are showing good stands, but need rain badly. Irrigation water supplies short, and beet crops may therefore suffer, or if taken care of with necessary irrigation other crop land, such as grain crops and feed crops, will have to be dry farmed. It appears that oats and barley will be the chief ones to suffer.

Pasture grass is not growing, and the continued drouth is worrying local ranch owners. Range grass is brown and very little growth is started due to the drouth and cool weather. It is expected that if range cannot be secured for both cattle and sheep that some liquidation may start by June 1st. Labor balanced.

PRAIRIE: No precipitation. Dust storms with heavy winds. Crop conditions unfavorable. Grasshoppers hatching in considerable numbers. Wind has damaged considerable wheat although wheat on land properly prepared still has a chance of making feed. Livestock in fair condition, but is confined to the coulees where there is grass. Lambing in full swing with a fair percentage being saved. Supply of labor ample.

RICHLAND: Hard drying winds during entire week caused considerable soil blowing. Temperatures generally moderate to cool. No precipitation of any value. Soil moisture below normal. Crops suffering from lack of moisture and wind erosion in dryland areas. Seed has blown out of some fields. Grasshoppers are beginning to hatch in places. Some seeding of grain crops held up awaiting rain. Growth of crops on irrigated land retarded due to low temperatures and need for early irrigation. Irrigation necessary in most cases to start sugar beets. Native grass growth very slow. Livestock still in generally poor condition.

ROOSEVELT: Continued dry with high winds May 18 and 19, doing much damage to crops. Probably 10 per cent of the seeded wheat acreage has been destroyed and another 10 per cent must have rain soon to recover. Fields undamaged by winds are standing drouth exceptionally well. All field work delayed until rain comes; little cut worm damage reported. Hoppers appearing on sandy soils, but hatching is not general enough to indicate severity of infestation. Ranges and pastures so poor that farmers are considering the need of further reducing their herds.

SHERIDAN: Continued dry. High shifting winds; some soil blowing. Cool. Growing conditions fair where moisture is sufficient. Some crops blown out, but will not be reseeded until it rains. Southwestern and western section of county very dry for crops. In general, moisture must come within ten days or serious crop damage will result. Shortage of grass is acute. Stockmen considering whether to ship livestock to grass or sell. Cutworm damage reported; grasshopper hatching increasing.

STILLWATER: Weather cool and cloudy most of the week with high winds. .05 inch moisture in Columbus on May 21st, with considerable more reported in spots around county. Moisture brightened up grass considerably, but crops are behi the usual growth at this time of year. Considerable winter wheat killed by lack o moisture and winds. Livestock in fair to good condition. Some pasture.

SWEETGRASS: Precipitation .50 inch during the week. Weather partly cloudy and warmer. Growing conditions greatly improved. Spring grains growing rapidly, with good stands generally. Winter wheat spotted and not growing as rapi ly as spring grains. Hay crops are growing rapidly under irrigation. Irrigation under way on most ranches. Livestock is growing rapidly on grass. Crickets doin some damage to crops. Grasshoppers hatching rapidly.

(Continued on Page 4.)

TOOLE: High prevailing winds most of week. No moisture to speak of. Nearly all crops are up, including those seeded most recently. Looking good, but need moisture badly in order to bring on the growth. Range grass needs rain badly; beginning to turn color. Labor plentiful. Cricket control work well under way on the Marias River.

VALLEY: Still no rain. High winds throughout the week. Growing conditions are very unfavorable. In the irrigated valley, crops are being irrigated in most cases to bring them up. Dry land section crops have been blown out, buried, or cut off. One community has been damaged approximately 70%, and the entire county approximately 30%. If there is any rain within the next few days, there will be some forage crops seeded in the dry land areas for winter feed. Cattle and horses are looking very good considering the spring. Sheep are holding their own at the present time. Lambs are rather small and in many cases very weak. There are some losses throughout the county in both calves and in lambs. The grass the past week has stopped growing entirely. Grasshoppers are hatching in a few places, particularly on south slopes and where protected from the wind; not serious enough to cause any damage at this time.

WHEATLAND: Continued dry central and eastern part of county. Light rains during the week in west and southwest. Somewhat warmer during week. Grasshoppers hatching, but spotted.

WIBAUX: Local showers in northern and southern localities of the county.helped crops in those areas. Weather cool. High winds forepart of week, with a great deal of soil blowing. Grass showing some improvement, but will not get very far without moisture. Many are getting short of pasture, and will have to move cattle soon if conditions do not improve. Except small areas where moisture was received, planting has practically stopped. Two reports of grasshoppers hatching. Livestock showing a little improvement.

YELLOWSTONE: Hot and dry first part of week. Showers Wednesday and Thursday evenings. .32 inch of precipitation. Cooler Friday and Saturday. Beets are practically all up and some blocking and thinning has been started. Planting of beans and corn still under way. Farmers irrigating crops in the irrigated district. Rain was of great value to farmers in the dry land sections. Both winter and spring grains looking very good. Alfalfa showing good growth. Rain was of considerable benefit to range grass. Livestock in good condition. Lambing practically over. Shearing in some parts of the county is getting under way. Grasshoppers hatching out. Cricket control program in full swing, but infestation is very much worse than was expected. Laborers fighting to keep crickets on south side of river.

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Helena, Montana,
May 26, 1937.

Weather Bureau —— Bureau of Agricultural Economics

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REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA

For the Week Ending Tuesday, June 1, 1937.

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Issued jointly by the Division of Crop and Livestock Estimates and the Weather Bureau.
Offices: Fourth Floor, Federal Office Building, Helena, Montana.

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Drought conditions were reported becoming critical for most dryland crops and ranges east of the Divide for the week ending Tuesday, June 1st. Soil blowing and dr[illegible] have already accounted for much loss of dryland grain crops, and unless good rains occur within the next ten days, the loss will become particularly severe for the greater part of central and eastern Montana. Good rains are also needed immediately for keeping the ranges alive, and stimulating the growth of grass. Many ranges east of the Divide have scarcely turned green this spring, and some are reported as brown as ordinarily observed during late July and August. A large part of the eastern range affords grazing only in the coulees, or where the winter's snow drifted deeply.

Showers visited almost every section of the State during the week, but amounts were mostly too light to do much actual good beyond washing vegetation clean of dust, and temporarily stopping soil blowing. High temperatures early in the week, and a severe duststorm on the 28th of May were particularly unfavorable for crops. Best rains for the week, amounting to an inch or more, occurred in limited parts of Carbon and Powder River counties. Early reports available at the Weather Bureau indicated average precipitation for May between 25 to 35% of normal. May normal precipitation for the State is 2.20 inches.

Summerfallowing has largely been discontinued because of soil blowing. Planting of late feed crops has been suspended, but if good rains occur in June, considerable acreage of emergency feed crops will be hurriedly seeded. As much water as possible continues to be used for irrigation, with supplies generally beginning to dwindle.

Irrigated crops and meadows are good generally, although growth has continued slow. West of the Divide, in Glacier County, from Gallatin to Sweetgrass, and in parts of Golden Valley and Musselshell Counties, crops and ranges are reported coming along in good shape, but in other sections are reported standing still or deteriorating because of drought.

The condition of winter wheat is good in Gallatin Valley and west of the Divide, but is poor to fair elsewhere. It is burning seriously in the southeast, jointing short in Fergus County, and beginning to head in Sanders County. Spring wheat is spotted. Corn is up. Planting of beans and potatoes has been completed. Beets are being thinned and blocked. The beet stand is reported excellent in Yellowstone Valley. Alfalfa is showing well under irrigation; some early cutting has been done.

Livestock continue gaining west, and are mostly in fair condition in central and eastern districts despite adverse drought and feed conditions. A few are being moved, or disposed of for lack of feed. Shearing is making good progress. Lambing has practically ended. Shipping of wool has started from the Flathead district.

The cricket control campaign has intensified. Crickets are spreading and damage increasing. Little change has occurred in connection with grasshopper infestations other than note being made of steady increases in numbers in most areas. A few reports indicate hoppers have diminished after the first hatchings.

WEEKLY TEMPERATURE AND PRECIPITATION DATA

Station	Temperature		Total Precipitation		Sunshine
	Highest	Lowest	This Week	Since April 1.	Percent of Possible
Billings	87	43	0.14	1.28	*
Bozeman	79	37	0.06	3.24	*
Cut Bank	74	30	0.25	1.10	*
Fort Peck	93	45	0.38	0.74	*
Glendive	99	46	0.14	0.60	*
Great Falls	80	35	0.26	0.49	*
Havre	84	38	0.18	0.80	74
HELENA	78	38	0.07	0.86	59
Kalispell	76	36	0.42	2.22	76
Lewistown	88	34	0.06	0.99	*
Malta	92	35	0.02	1.02	*
Miles City	94	48	0.27	1.60	66
Missoula	80	40	0.63	1.89	70
Poplar	96	42	T	0.48	*

*No data.

Series - 1937 - No. 9.
Helena, Montana.
June 2, 1937.

W. E. Maughan, Weather Bureau.
Jay G. Diamond, Divn. of Crop & Livestock Estimates.

The following county summaries of crop conditions for the week ending May 29, 1937, are furnished through the courtesy of Director J. C. Taylor, Montana State Extension Service:

BEAVERHEAD Heavy rain reported in Big Hole section past week; no precipitation in Beaverhead valley; weather cool, moisture needed. Water supply low. Practically all seeding done. Finishing up lambing, no activity in wool. Grasshoppers are hatching on range land and crop land in Dell area.

BIG HORN No precipitation during most of the week ending with terrific wind and dust storm, which did considerable damage to spring seeded crops. Winter wheat burning and the spring wheat nearly hopeless unless moisture comes within a few days. Valley crops are fair. Beets being irrigated the second time before thinning which is under way now. Range fair but suffering from lack of moisture. Livestock fair in spite of drought. Crickets spreading and menacing with control campaign intensified. Grasshoppers also appearing in large numbers.

BLAINE Light shower Saturday, not sufficient to do any good. Considerable wind the fore part of week. All crops on dry land at a standstill. Crops on irrigated land that have received first irrigation are doing very nicely. Many farmers have discontinued summerfallow operations because of possibility of soil blowing. Cutworms reported and some damage done in northern part of County. Grasshoppers hatching in large numbers south of Milk River. Livestock conditions about the same as last week. Range grass deteriorating rapidly due to lack of moisture.

CARBON Very little precipitation this week. High winds, drying conditions in most sections. Alfalfa and winter wheat making a very good growth. Most bean planting completed. Thinning of beets well under way. Livestock in fair condition. Labor well in hand, altho some shortage of farm labor is reported. Mormon cricket control work is being carried on in some 15 communities with a possibility of two more being ready to start. Mixing of grasshopper bait is progressing and plentiful hatchings are reported, altho infestation seems to be diminishing after the first hatchings.

CASCADE No precipitation. High winds and cool weather. Considerable damage to spring and winter wheat left by winds, grasshoppers, crickets and cutworms. Both range grass and grain crops are showing the effects of drought. Cricket eradication work progressing. Most crop land adjoining infested areas being protected. Crops on irrigated land are looking fairly well. Grain is up, sugar beets and potatoes are all planted and most of the beets are with good stands. Sheep and cattle being moved to range lands, but without rain the grass in the foothills will last only a short time and many farmers continue to liquidate small herds of cattle.

CHOUTEAU Continued dry and windy until today when we are having light showers. Soil has been blowing all week. Winter wheat conditions very poor. Spring wheat coming up very spotted. Conditions for a crop are very discouraging. Livestock being turned on the ranges but grass is very short. Mormon cricket infestation very heavy. W.P.A. crews of about 100 men are working to control this pest. Grasshopper situation as yet not reported as serious.

CUSTER-POWDER RIVER Continued drying winds. Rain needed badly. All crops beginning to curl except under irrigation. Thistles nearly as high as grain. Moisture will have to come soon to save dry land crops. Water supply still sufficient in Tongue River and ranchers irrigating heavy. Alfalfa under irrigation making good growth. Newly seeded crops irrigated to get started. Sheep and cattle continue to do well for the present with so little stuff on the range. Early grass headed out. No chance for later feed unless plenty of rain comes soon. No restocking in prospect this year unless grass and hay crops are made. No labor needed. Grasshoppers appearing in all areas.

DANIELS Light local showers, not enuf to stimulate plant growth. Further deterioration of early seeded grain crops noted from effects of drifting soil. No apparent injury to grain from lack of moisture alone evidenced. Rain needed soon however to revive grain injured by wind. Practically all field operations suspended pending rainfall. Should ample precipitation fall during early June considerable acreage emergency feed crops will be planted. In worst blow areas, stockmen are endeavoring to locate additional pasture for livestock. Some newly hatched grasshoppers appearing adjacent to buck brush and hillsides.

DAWSON Drought conditions continue with week ending in quite warm temperatures which had not prevailed up to this time, and severe blowing for a short period. Small grain crops in many areas remain in condition to provide at least feed, if moisture would only come. Considerable destruction from blowing has occurred. Pasture conditions rapidly becoming critical. Grasshoppers hatched in consierable numbers in several localities.

FALLON-CARTER Dry weather with trace of showers in scattered parts of the counties. Crop conditions very unfavorable. Grasshoppers are hatching and noticed in great numbers in certain areas of the County. They will be a menace to crop conditions this year. Our only hope is rain. Lambing just about over, from fair to good. Many dry ewes showing up. Grass drying. Very badly in need of rain.

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FERGUS Dry and hot, followed by most severe duststorm in history of county Friday afternoon. Crops beginning to suffer from lack of moisture. Winter wheat beginning to joint in height not to exceed six inches. Spring wheat still has chance with sufficient moisture. First cutting of alfalfa practically lost. Livestock holding up well, but are getting pasture only in coulees. Hills are becoming more brown and water getting short. Livestock will be moved unless some change is noted. Cricket control under way. Getting good results. Grasshoppers hatching in large numbers. Campaign expected to start next week.

FLATHEAD Very windy first part of week, bur on Friday a general rain fell throughout the county. The rain was needed, since moisture reserves were disappearing very rapidly. Crop conditions generally good except for a few areas where some of the fields were blown out in spots. Wire worms reported in a few areas, damage being confined to corn and late plantings of oats. Livestock in good condition. Range and pastures good. A carload of wool will be shipped Tuesday on consignment.

GALLATIN No precipitation and warmer with an increase in amount of wind. Both grain and hay crops showing particularly good growth for the present, but there are indications also that winds during the past week have dried out much of the surface soil. High period passed in most streams and irrigation is general, and being pushed at a rapid rate. Small grain and peas being irrigated. Range lambing completed and shearing of farm flocks under way.

GARFIELD-PETROLEUM Scattered showers brought little relief to the droughty condition. Two severe dust storms with accompanying soil drifting. Temperature becoming warmer during week. Declining crop conditions, still limited areas could be saved by sufficient moisture. Seeding of corn, cane and summer feed crops will be very small without precipitation. Range becoming insufficient in eastern and southern sections. General livestock condition fair for season. Grasshoppers reported and found hatching to an extent of severity only in scattered sections.

GLACIER Windy all week except Friday when we had heavy rains in the western and northern part of the county tapering down to a mere sprinkle in the southwestern part. Normal temperatures. Crops coming along fine. Some grain cut off by the wind, but none destroyed completely. Range in good condition. Livestock in good condition. Adequate labor. Several rather large acreages reported as taken by cutworms.

HILL Precipitation: .09 inch. Continued dry weather. Some soil blowing during the past week. Soil is very susceptible to blowing with every slight breeze. Grain growing very slowly. Range conditions fair. Livestock in fair condition.

JUDITH BASIN Precipitation slight and scattered. Temperatures low. High winds prevailing. Considerable damage from soil blowing. Spring wheat blown out in many cases. All crops and forage badly in need of moisture. Grasshoppers hatching in large numbers in some areas. Feed extremely short. All livestock now on range and calving and lambing practically complete. A large portion of the range has not turned entirely green this spring.

LAKE Light showers over county in middle of week did considerable good. Growing conditions good. Gentle rain over entire county falling Saturday. Beets practically all up with some thinning started. Fair to good stands of beets. Farmers are irrigating crops in all irrigation districts. All crops doing very well. Rains did considerable good to range lands and livestock are in good condition. Shearing about completed. Labor coming in from other areas seeking employment. Cricket infestation more serious than was expected and are migrating.

LEWIS & CLARK-BROADWATER Scattered showers of small value to crops and grass. Cool to low temperatures have slowed crop and grass growth. Drying winds in both counties. Crops show definite need of moisture in all parts of both counties. Need of moisture is becoming quite serious, operators using limited irrigation water supplies to best advantage. Livestock in fair condition. Feed prospects appear unfavorable. Grass burning generally and feed crops lacking moisture. Grasshoppers hatching out generally in both counties and considerable poisoning being done. Federal bait materials needed badly.

MADISON-JEFFERSON Heavy shower in South Boulder and Harrison areas Friday with only trace of moisture in other communities. Crops in many localities suffering from lack of water with ranges rapidly drying up. Irrigation being crowded as rapidly as possible. Many already experiencing a shortage. All possible water is being taken from many streams. Grasshopper and drought situation said to be worst in experience in this area. Shortage of range and pasture but as yet livestock have not suffered from lack of feed. Shearing started on a small scale during past week. Some cattle being trailed to summer range.

MEAGHER Continued total dry until Friday afternoon, light shower. Temperature normal during day, nights cold. Grass burning in lower country. Dry

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land grain at stand-still. Late plantings not germinating, from lack of moisture. Lambing about finished. Livestock all in good flesh. Average to good shearing expected. Little infestation of grasshoppers over entire county, medium in spots. Prospects generally very poor for the coming season.

MISSOULA Two good showers totaling .65 inch of rain during week. Weather warm and some wind. All crops making normal growth. Moisture will be very beneficial to all crops especially for late seeded crops, for which soils were too dry to germinate. Irrigation in full progress on all projects. Water is now available under the new Frenchtown Reclamation Project. Beef cattle all out on range. Range generally in good condition. Lower hills and cheat grass pastures starting to dry up.

MUSSELSHELL-GOLDEN VALLEY Winds not quite as bad the past week as they have been the past month. Growing conditions good, but short of moisture to grow anything. Winter wheat that has not been damaged by cutworms is still looking very good. Spring wheat shows slight effects of drought, and it would still be time, if rain came, to make fairly good crops. Lambing just about completed with very good lamb crop, both in percentage and in the lambs. Calf crops about 51% of normal.

PARK Drying winds decreasing crop prospects considerably. All farmers on irrigated areas using all the water possible in effort to make maximum use before creeks go down. Alfalfa looking good but grain not doing very well. Livestock in fair condition and new grass is fairly good now. Grasshoppers hatching out very thick in most areas; cricket control program well under way.

PHILLIPS Widely scattered local showers ranging from trace to .20 inch. Continued cool weather with only moderate winds. Slightly warmer latter part of week. Growing conditions slightly improved. Spring planting completed with exception of corn and feed crops. More rain is needed to start crops. Total acreage crops put in this spring about 30% less than 1936. Range condition poor. Livestock barely holding their own. Calf and lamb crop reported about normal.

PONDERA High winds with spotted showers on Friday and Saturday of this week. Precipitation approximately two-tenths of an inch. Wheat has been severely damaged. If rains continue, some prospects for a crop together with reseeding to the extent of at least 75%. Feed crops are subject to same conditions of high winds and blowing of silt as it has never blown before. All range grass is brown and has stopped growing. Some local exchange of livestock, but no movement to terminal markets. Milk cows going down in production due to lack of feed and dry land farms depending upon water holes are in a critical condition.

PRAIRIE Weather conditions unfavorable for past week. No precipitation and big wind and dust storm Friday. Crops are showing effects of continued drought and adverse conditions. Grasshoppers hatching in large numbers. Ranges and crop land badly in need of moisture. Considerable wind erosion is taking place even on the range where there is no protection. Lambing is about completed with good percentage being saved. There is some talk of shipping cattle from the western portion of the county where there is little feed. Supply is ample for labor.

RICHLAND No precipitation. Hot and dry during latter part of week. Winds during fore part of week caused soil drifting and crop damage. Dry land grain crops suffering from lack of moisture. It is estimated that from one-fourth to one-half of grain crops in dry land parts of the county severely damaged by wind. Grasshoppers hatching in large numbers in some areas. Some poisoning work started. Reports indicate that blister beetles are showing up in irrigated parts of valley. Beets are mostly up but some cultivation taking place. Native grass pastures and ranges also suffering from drought and small patches that were once green this spring are already beginning to dry up. Livestock condition unchanged.

ROOSEVELT Continued dry with but one small section of the county receiving any rains. Unusually warm days May 27 and 28 damaged grain crops severely. Farmers in general now despair of getting any grain crop this year. Some corn being planted, but planting is withheld on the bulk of acreage. Cutworms damaging early planted corn and some grain. Pasture and range situation most serious yet faced by stockmen. Grass very short. Continued hot dry weather is making all livestock men worry about feed and water supplies. Some cattle moving to market and to out-of-state pastures. Grasshoppers hatching but no serious infestation reported

ROSEBUD No precipitation. Higher temperatures with less wind prevailed during week. Wind and drifting soil have taken 25% of dry land grain. Drought has already taken another 25%. Dry land crops will be total loss without rain for another week. Irrigated crops doing well. Beet thinning about half completed with good stands generally reported. Livestock generally doing well. Range grass burning badly. Grass and water shortage will be serious in another two weeks in north half of county. Lambing completed with fair percentage. Grasshoppers doing very little damage, only a few requests for bait so far. Cricket poisoning started on Custer Forest during the week.

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SANDERS Cool, windy and very dry. Slight precipitation, general growing conditions poor. All dry land crops showing need of moisture. Winter wheat making slow growth and starting to head. Dry land meadows making slow growth with outlook for a very low yield. Irrigated crops backward with low water supply. Livestock in good condition. Range drying rapidly from winds and low moisture.

SHERIDAN Light showers of no particular benefit to crops, two hot days, otherwise cool and cloudy, continued wind. Crops without sufficient moisture are drying out. Continued wind is damaging crops even though there is sufficient moisture. Summerfallow well under way but under adverse conditions. Some stock reported dying from dust and sand in stomachs. Dairymen will need hay for feed in next two weeks. Grass growth slow and found only in coulees. Surplus of labor is increasing. Grasshopper hatchings under way, some demand for bait which is being supplied.

STILLWATER Considerable wind during entire week with a particularly high wind on Friday. The entire county is badly in need of rain. Parts of county including Broadview, Molt and sections south of Yellowstone still have a chance of a crop if rain is received in the next ten days or two weeks. Irrigation in irrigated sections in full swing. Scattered reports of grasshopper damage. Poison available for farmers. Cricket dusting continues in six areas in the county. Grass is fair to good in the county and as yet there has been no stock moved because of lack of feed. Prospect of hay crop much brighter than last year.

SUN RIVER PROJECT General weather conditions remain dry. Farmers still irrigating fields for seed germination. Seeding is practically one-half finished, being delayed because of irrigating before seeding. Crops on land irrigated last fall germinated and started in very good shape. Pasture conditions about holding their own, but need moisture badly.

SWEETGRASS Trace of precipitation. Partly cloudy and cool during week. Growing conditions fair. Needing rain. Grass at a standstill; summfallow on dry land ceased due to drought. Crops under irrigation doing very well, considering the cool weather. Seeding all completed. Livestock growing rapidly on grass. Good results in late lambing. Shearing starting in small flocks. Reports of considerable loss in calf crops in some herds from Bang's and poor condition of cows. Grasshoppers hatching. Unable as yet to determine extent of infestation due to cool weather retarding the hatch. Crickets growing rapidly and spreading to new areas. Control campaign to date has saved several crops.

TOOLE High winds the fore part of week moving considerable soil in parts of the County. Generally cool. No precipitation. Much of grain is at a standstill and some spots are turning color due to insufficient moisture. Stock in fairly good condition. Part of the range grass is turning brown except for the coulees where snow was drifted. Labor plentiful. Grasshoppers beginning to appear in places. Cricket control is under way along Marias River.

VALLEY Trace of precipitation in localities, with .34 recorded at Fort Peck, Dry land crops in majority of cases are practically gone. Few fields of summerfallow that didn't blow are holding up pretty well. In the irrigated sections, potatoes and other crops being irrigated for the second and third time. Livestock even with a shortage of grass seems to be taking on a little flesh, particularly cattle and horses. Grass has stopped growing, but has considerable strength. Lambing beginning to taper off with only a fair lamb crop. Calves did very well. No labor needed, but men need work badly. Grasshoppers have been hatching out heavily past few warm days. No signs of crickets at this time. Few cutworms beginning to show up in dry land sections.

WHEATLAND Heavy rain in southwest corner of county. Other parts dry winds during week with soil blowing. Some grasshopper damage being reported on crops. Crops burning badly with exception of southwest part of county. Considerable damage to crop due to high winds and soil blowing.

WIBAUX Two days during week very hot, remainder of week quite cool. High winds part of week with some soil blowing. Dust storm Friday evening. Wheat crop is disappearing fast from grasshoppers, cut worms and soil blowing. The hope is to get moisture and raise some feed. Shortage of pastures reported. Some cattle will have to be moved soon.

YELLOWSTONE Hot and dry with high winds. Beets mostly thinned and blocked and in excellent condition. Beans and corn up and looking good. Winter wheat holding its own in the southern part of the county, but deteriorating rapidly in the northern part due to drought. Irrigated crops all looking good. Livestock in good condition on irrigated pastures, but range operators short of water and grass is drying up in certain areas. Grasshopper infestation very spotted with poisoning operations under way. Mormon cricket infestation still very severe with 467 men actively engaged in fighting. Crickets have been held on the south side of the river so far.

TETON Extremely windy practically all week. Precipitation for week .19. Growing conditions have been very poor. Hundreds of acres of crops have been blown out so badly that it will not recover. Irrigated sections are having to irrigate crops up. Dry land wheat very spotted. Wheat on strip fallow standing up in good shape. Will need heavy general rain within next 10 days to save balance crop not

blown out. Grass practically no growth. Range is in worse shape it has ever been, according to old timers. A lot of cattle have been moved to market. Most of the farmers selling out their entire herd due to pasture conditions.